

M01\_01 (M041004): Number / Knowing      Type: MC      Key: B  
Label: Convert words to numerals

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	89.3	5.5	89.3	2.6	2.2	0.4	0.1	89.0	89.6
	2015	875	89.5	4.9	89.5	2.2	1.9	1.2	0.3	88.1	91.1
Bahrain	2011	588	64.2	16.5	64.2	5.9	12.6	0.5	0.3	60.2	68.1
	2015	599	71.6	11.8	71.6	7.7	8.1	0.6	0.1	70.4	72.8
Belgium (Flemish)	2011	694	93.7	1.7	93.7	2.4	1.7	0.5	0.0	92.8	94.6
	2015	765	93.9	2.0	93.9	2.0	1.7	0.3	0.2	92.0	95.9
Chile	2011	802	89.6	4.1	89.6	2.2	2.5	0.8	0.7	89.6	89.6
	2015	649	91.8	3.3	91.8	0.8	2.0	0.9	1.3	90.7	92.7
Chinese Taipei	2011	616	96.8	0.5	96.8	1.6	1.0	0.0	0.2	98.3	95.5
	2015	614	97.7	0.1	97.7	1.1	0.6	0.5	0.0	97.1	98.3
Croatia	2011	659	96.2	2.3	96.2	0.9	0.2	0.4	0.0	96.8	95.6
	2015	570	94.0	2.8	94.0	2.7	0.5	0.1	0.0	94.4	93.7
Czech Republic	2011	661	94.4	2.2	94.4	0.7	1.8	1.0	0.0	95.6	93.3
	2015	749	95.7	2.1	95.7	1.3	0.5	0.4	0.0	95.9	95.6
Denmark	2011	567	84.4	5.6	84.4	2.8	5.6	1.5	0.1	83.9	85.0
	2015	531	87.5	3.9	87.5	2.4	4.0	1.9	0.3	83.2	91.9
England	2011	486	85.8	4.4	85.8	3.7	4.8	1.1	0.3	81.5	90.2
	2015	569	92.6	3.8	92.6	1.7	1.6	0.2	0.0	91.8	93.6
Finland	2011	648	90.2	1.9	90.2	4.7	2.4	0.8	0.0	86.7	93.7
	2015	717	92.1	1.9	92.1	3.8	1.6	0.5	0.0	92.1	92.1
Georgia	2011	687	89.5	2.3	89.5	3.6	3.8	0.4	0.4	88.5	90.4
	2015	553	87.0	2.9	87.0	2.3	6.2	1.4	0.2	83.7	90.0
Germany	2011	581	90.7	1.9	90.7	2.6	3.9	0.9	0.0	90.7	90.8
	2015	554	91.7	2.7	91.7	1.9	2.2	1.4	0.0	93.5	89.9
Hong Kong SAR	2011	566	93.0	1.1	93.0	3.4	2.0	0.4	0.0	95.3	91.1
	2015	517	95.7	0.2	95.7	2.1	2.1	0.0	0.0	95.3	96.0
Hungary	2011	743	89.0	4.3	89.0	1.5	4.1	0.9	0.1	89.3	88.8
	2015	715	90.6	2.5	90.6	2.4	2.9	1.6	0.0	89.9	91.3
Iran, Islamic Rep. of	2011	816	68.5	18.8	68.5	5.0	6.3	1.5	0.0	70.9	66.0
	2015	542	56.6	26.8	56.6	4.8	10.2	1.1	0.6	55.3	57.9
Ireland	2011	643	84.5	7.5	84.5	1.3	5.2	1.3	0.1	85.0	84.0
	2015	626	92.7	4.3	92.7	2.0	0.9	0.0	0.1	92.3	93.0
Italy	2011	600	90.1	1.5	90.1	3.7	3.8	0.6	0.2	89.4	90.7
	2015	624	91.3	1.6	91.3	3.6	3.1	0.4	0.0	90.8	91.9
Japan	2011	628	97.7	0.1	97.7	1.5	0.5	0.1	0.0	97.0	98.4
	2015	621	97.5	0.5	97.5	1.8	0.2	0.0	0.0	98.8	96.1

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COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	91.3	1.4	91.3	2.7	4.0	0.3	0.2	91.1	91.5
	2015	668	92.8	1.5	92.8	2.1	3.6	0.1	0.0	92.5	93.0
Korea, Rep. of	2011	618	96.8	0.8	96.8	1.7	0.6	0.0	0.0	97.3	96.3
	2015	664	96.5	0.1	96.5	2.3	1.1	0.0	0.0	96.0	96.9
Kuwait	2011	584	46.4	20.9	46.4	10.6	16.2	5.6	0.3	41.8	51.5
	2015	490	58.3	17.5	58.3	9.4	10.5	2.9	1.4	57.2	58.8
Lithuania	2011	663	92.5	3.1	92.5	1.9	1.8	0.5	0.2	92.5	92.5
	2015	649	94.5	1.8	94.5	2.7	0.5	0.1	0.4	93.6	95.4
Morocco	2011	1080	44.4	19.2	44.4	15.6	18.4	2.2	0.2	44.8	44.2
	2015	731	62.0	14.8	62.0	10.2	10.7	1.9	0.4	64.5	59.6
Netherlands	2011	465	90.9	1.1	90.9	2.3	5.2	0.4	0.0	88.5	93.7
	2015	650	93.4	0.6	93.4	2.6	2.8	0.4	0.2	91.7	95.1
New Zealand	2011	798	82.4	8.5	82.4	3.3	5.2	0.5	0.1	81.9	83.0
	2015	904	87.3	5.7	87.3	3.0	3.5	0.4	0.1	87.0	87.5
Northern Ireland	2011	516	93.0	2.3	93.0	1.9	2.1	0.7	0.0	94.0	92.0
	2015	452	92.2	3.8	92.2	2.2	1.5	0.3	0.0	91.8	92.6
Oman	2011	1497	55.1	23.9	55.1	7.3	11.4	1.7	0.5	54.5	55.8
	2015	1199	65.6	14.4	65.6	9.2	9.8	0.7	0.3	67.3	64.2
Portugal	2011	575	90.9	3.7	90.9	3.1	2.2	0.1	0.0	91.0	90.9
	2015	685	94.5	1.9	94.5	1.3	2.3	0.0	0.0	92.2	96.7
Qatar	2011	590	65.9	14.6	65.9	10.1	8.0	1.0	0.4	63.9	67.7
	2015	728	74.1	9.8	74.1	7.6	6.6	1.2	0.8	72.2	76.1
Russian Federation	2011	642	96.6	0.6	96.6	1.6	0.7	0.6	0.0	96.6	96.6
	2015	705	97.7	0.9	97.7	1.2	0.2	0.0	0.0	97.3	98.1
Saudi Arabia	2011	674	63.3	22.3	63.3	6.6	7.6	0.1	0.0	58.2	69.0
	2015	619	58.2	13.7	58.2	12.4	14.0	0.8	0.8	61.1	55.5
Serbia	2011	625	97.5	1.1	97.5	0.5	0.2	0.7	0.0	98.0	97.0
	2015	589	93.9	2.0	93.9	1.4	2.0	0.7	0.1	93.7	94.0
Singapore	2011	903	95.1	0.9	95.1	2.9	1.1	0.0	0.0	93.9	96.3
	2015	939	93.7	0.9	93.7	4.2	1.3	0.0	0.0	94.0	93.3
Slovak Republic	2011	795	92.2	2.6	92.2	2.4	2.6	0.1	0.1	90.1	94.4
	2015	818	87.8	5.4	87.8	3.4	3.2	0.3	0.0	86.7	88.8
Slovenia	2011	642	88.3	2.2	88.3	5.8	3.1	0.6	0.0	88.4	88.3
	2015	628	90.2	2.1	90.2	4.5	2.6	0.5	0.0	89.4	90.9
Spain	2011	585	93.5	2.0	93.5	0.9	1.5	2.1	0.0	94.4	92.7
	2015	1110	95.6	1.4	95.6	1.3	1.0	0.2	0.4	95.3	95.9

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Sweden	2011	644	86.8	5.4	86.8	4.9	1.9	0.8	0.2	90.3	84.0
	2015	588	90.6	3.2	90.6	3.2	1.5	1.5	0.1	90.2	90.9
Turkey	2011	1083	85.5	5.4	85.5	2.4	6.0	0.7	0.1	83.6	87.1
	2015	926	85.1	5.1	85.1	1.6	7.9	0.3	0.1	84.3	85.7
United Arab Emirates	2011	2070	71.7	9.8	71.7	6.9	9.8	1.3	0.5	68.7	74.8
	2015	3037	77.4	7.6	77.4	5.9	7.8	1.2	0.1	73.1	81.1
United States	2011	1800	96.5	1.1	96.5	0.8	1.1	0.3	0.1	95.5	97.7
	2015	1447	91.9	2.5	91.9	1.8	2.0	1.6	0.2	92.0	91.7
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International Avg (n=40)	2011	30326	85.1	5.9	85.1	3.7	4.4	0.8	0.1	84.5	85.8
	2015	30616	87.1	4.9	87.1	3.5	3.7	0.7	0.2	86.5	87.6
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Ontario, Canada	2011	640	78.5	7.4	78.5	3.9	8.5	1.6	0.1	77.0	79.9
	2015	653	86.1	4.8	86.1	4.9	3.6	0.5	0.1	85.0	87.1
Quebec, Canada	2011	616	94.1	1.6	94.1	1.1	2.7	0.6	0.0	92.4	96.0
	2015	402	91.4	2.4	91.4	2.8	3.4	0.0	0.0	87.0	94.9
Norway (4)	2011	439	84.4	7.4	84.4	3.0	4.3	0.7	0.2	84.2	84.6
	2015	597	83.8	9.7	83.8	1.6	3.5	1.0	0.5	82.1	85.6
Abu Dhabi, UAE	2011	588	70.3	9.4	70.3	6.7	11.7	1.3	0.6	65.3	75.1
	2015	714	71.7	9.4	71.7	7.5	9.8	1.4	0.3	65.1	77.7
Dubai, UAE	2011	868	81.1	7.3	81.1	4.1	6.0	0.9	0.6	79.3	82.7
	2015	1070	88.6	3.8	88.6	3.0	4.1	0.5	0.0	86.8	90.1
Florida, US	2011	364	96.9	0.8	96.9	1.6	0.2	0.5	0.0	95.6	98.3
	2015	288	94.1	1.2	94.1	3.1	1.0	0.6	0.0	94.1	94.1
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M01\_02 (M041023): Number / Knowing Type: MC Key: D  
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Australia	2011	870	75.9	13.2	5.5	4.0	75.9	1.4	0.1	76.0	75.7
	2015	875	79.2	10.0	4.4	5.4	79.2	0.7	0.3	79.0	79.5
Bahrain	2011	588	57.1	28.9	4.2	8.0	57.1	1.5	0.3	55.6	58.5
	2015	599	57.4	28.2	5.0	8.0	57.4	1.4	0.1	57.1	57.7
Belgium (Flemish)	2011	694	95.1	3.4	0.7	0.1	95.1	0.6	0.0	95.0	95.1
	2015	765	94.3	3.2	1.5	0.5	94.3	0.3	0.2	94.9	93.7
Chile	2011	802	76.4	15.0	3.3	3.5	76.4	1.1	0.8	78.5	74.5
	2015	649	72.1	17.6	4.9	3.0	72.1	1.2	1.3	76.1	68.7
Chinese Taipei	2011	616	96.1	2.7	0.5	0.5	96.1	0.0	0.2	98.3	94.3
	2015	614	96.6	2.0	0.0	0.9	96.6	0.5	0.0	95.0	98.0
Croatia	2011	659	80.7	17.7	0.3	0.6	80.7	0.7	0.0	78.0	83.2
	2015	570	82.6	16.0	0.4	0.9	82.6	0.2	0.0	79.4	85.2
Czech Republic	2011	661	91.0	5.7	1.1	0.5	91.0	1.7	0.0	90.7	91.3
	2015	749	93.6	3.7	0.8	1.1	93.6	0.8	0.0	93.0	94.1
Denmark	2011	567	84.8	8.2	3.1	2.7	84.8	1.1	0.1	82.9	86.7
	2015	531	86.7	6.8	2.7	1.9	86.7	1.6	0.3	88.9	84.6
England	2011	486	81.7	11.4	2.6	3.0	81.7	0.9	0.3	81.7	81.8
	2015	569	85.2	9.2	2.2	2.7	85.2	0.7	0.0	83.3	87.4
Finland	2011	648	87.6	8.5	1.0	0.5	87.6	2.3	0.0	87.6	87.5
	2015	717	87.0	7.7	2.9	1.1	87.0	1.3	0.0	89.3	84.8
Georgia	2011	687	85.1	9.1	3.3	1.8	85.1	0.3	0.4	82.5	87.5
	2015	553	82.5	8.3	5.2	1.9	82.5	1.8	0.3	81.7	83.2
Germany	2011	581	89.9	6.8	2.1	0.4	89.9	0.8	0.0	91.8	87.9
	2015	554	88.4	6.5	2.1	2.0	88.4	1.0	0.0	87.9	88.8
Hong Kong SAR	2011	566	97.0	1.3	0.1	1.1	97.0	0.4	0.0	97.3	96.8
	2015	517	96.7	2.0	0.6	0.7	96.7	0.0	0.0	97.1	96.4
Hungary	2011	743	87.3	8.9	2.1	1.2	87.3	0.5	0.1	86.9	87.7
	2015	715	88.8	7.8	0.8	2.2	88.8	0.4	0.0	88.6	89.1
Iran, Islamic Rep. of	2011	816	63.1	28.6	2.8	4.0	63.1	1.5	0.1	62.7	63.5
	2015	542	59.7	28.3	4.5	5.0	59.7	1.9	0.6	58.7	60.8
Ireland	2011	643	85.3	10.1	2.0	1.5	85.3	1.0	0.1	89.8	80.6
	2015	626	88.8	8.6	1.0	1.3	88.8	0.2	0.1	89.7	87.9
Italy	2011	600	81.3	13.8	1.9	1.9	81.3	0.9	0.2	78.4	84.3
	2015	624	82.8	12.8	2.4	1.5	82.8	0.5	0.0	80.1	85.4
Japan	2011	628	93.7	3.4	1.1	1.3	93.7	0.4	0.0	95.1	92.4
	2015	621	94.9	3.8	0.7	0.6	94.9	0.0	0.0	94.8	94.9

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Kazakhstan	2011	622	80.2	17.8	0.6	1.1	80.2	0.1	0.2	79.0	81.5
	2015	668	87.0	10.5	1.5	0.9	87.0	0.1	0.0	86.2	87.7
Korea, Rep. of	2011	618	95.0	3.2	0.3	1.3	95.0	0.1	0.0	94.8	95.1
	2015	664	94.0	3.1	0.3	2.6	94.0	0.0	0.0	94.5	93.5
Kuwait	2011	585	26.1	48.2	8.6	12.1	26.1	4.6	0.3	26.1	26.1
	2015	490	31.8	48.2	7.3	6.3	31.8	4.9	1.4	31.4	32.6
Lithuania	2011	663	91.8	5.1	1.2	1.4	91.8	0.3	0.2	93.8	90.1
	2015	649	90.7	5.1	1.9	1.5	90.7	0.5	0.4	91.6	89.8
Morocco	2011	1096	37.2	37.0	9.0	14.7	37.2	1.8	0.2	35.2	39.1
	2015	731	40.9	36.1	8.2	11.5	40.9	2.7	0.6	43.6	38.4
Netherlands	2011	465	94.5	2.9	0.9	1.5	94.5	0.2	0.0	92.3	97.0
	2015	650	95.4	2.1	1.0	0.9	95.4	0.4	0.2	94.6	96.2
New Zealand	2011	798	74.0	14.8	4.8	5.5	74.0	0.9	0.1	76.6	71.3
	2015	904	78.4	9.6	5.7	5.0	78.4	1.2	0.1	81.9	74.9
Northern Ireland	2011	516	91.9	5.1	0.9	0.6	91.9	1.5	0.0	93.7	90.1
	2015	451	94.0	3.8	0.8	1.4	94.0	0.0	0.0	93.1	94.8
Oman	2011	1497	43.9	37.3	5.8	10.3	43.9	2.2	0.6	44.3	43.4
	2015	1307	53.6	28.9	6.9	9.1	53.6	1.2	0.3	55.2	52.3
Portugal	2011	575	84.9	9.5	2.2	2.7	84.9	0.8	0.0	85.7	84.1
	2015	685	90.1	6.7	1.5	1.6	90.1	0.1	0.0	88.3	91.8
Qatar	2011	591	42.9	35.7	7.5	11.6	42.9	1.9	0.4	38.1	47.0
	2015	728	56.4	30.1	5.9	5.9	56.4	0.9	0.8	55.5	57.3
Russian Federation	2011	642	93.4	5.6	0.6	0.2	93.4	0.1	0.0	94.3	92.7
	2015	705	94.8	4.1	0.5	0.7	94.8	0.0	0.0	93.6	95.8
Saudi Arabia	2011	674	40.5	40.0	7.0	11.5	40.5	1.0	0.0	38.8	42.5
	2015	620	40.8	36.7	8.3	11.9	40.8	1.3	1.0	43.4	38.4
Serbia	2011	625	85.8	12.5	0.3	0.7	85.8	0.6	0.0	82.7	89.0
	2015	589	85.6	11.5	1.0	0.8	85.6	1.0	0.1	83.4	87.6
Singapore	2011	903	94.1	3.6	1.2	1.0	94.1	0.1	0.0	94.4	93.8
	2015	939	92.6	5.0	1.0	1.3	92.6	0.1	0.0	94.5	90.9
Slovak Republic	2011	795	81.0	15.7	1.0	1.7	81.0	0.3	0.1	78.1	84.2
	2015	818	82.8	11.4	2.3	3.4	82.8	0.1	0.0	82.9	82.7
Slovenia	2011	642	86.2	11.3	1.1	0.6	86.2	0.8	0.0	88.0	84.5
	2015	628	88.1	8.4	1.4	1.9	88.1	0.2	0.0	90.4	86.2
Spain	2011	585	77.6	17.9	1.4	1.4	77.6	1.6	0.0	74.3	80.7
	2015	1110	80.4	15.4	2.4	1.1	80.4	0.4	0.4	78.8	81.8

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Sweden	2011	644	80.1	12.9	3.7	2.3	80.1	0.8	0.2	78.8	81.1
	2015	588	79.2	13.4	3.7	2.8	79.2	0.8	0.1	84.2	74.2
Turkey	2011	1083	73.8	21.1	2.3	1.8	73.8	0.8	0.2	72.1	75.4
	2015	926	78.6	15.4	2.5	2.7	78.6	0.7	0.1	79.1	78.1
United Arab Emirates	2011	2070	54.1	34.7	3.8	5.6	54.1	1.2	0.5	55.4	52.8
	2015	3037	57.6	30.4	5.5	5.2	57.6	1.2	0.1	55.5	59.6
United States	2011	1800	87.4	9.8	0.9	1.2	87.4	0.6	0.1	86.1	88.7
	2015	1447	85.0	9.6	1.6	1.5	85.0	2.0	0.3	85.9	84.1
-----											
International Avg (n=40)	2011	30344	78.1	15.0	2.6	3.2	78.1	1.0	0.1	77.8	78.5
	2015	30724	79.9	13.2	2.8	3.0	79.9	0.9	0.2	80.1	79.7
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Ontario, Canada	2011	640	79.3	9.5	5.3	3.8	79.3	2.1	0.1	77.9	80.8
	2015	653	79.6	9.5	5.2	4.8	79.6	0.7	0.1	75.9	83.3
Quebec, Canada	2011	616	88.6	5.4	3.6	1.6	88.6	0.8	0.0	87.5	89.8
	2015	403	89.2	5.2	2.0	3.6	89.2	0.0	0.0	88.3	89.9
Norway (4)	2011	439	74.6	16.6	4.9	3.2	74.6	0.5	0.2	75.0	74.2
	2015	597	81.7	11.2	2.6	2.9	81.7	1.1	0.5	81.7	81.7
Abu Dhabi, UAE	2011	588	49.8	38.6	4.2	5.6	49.8	1.2	0.6	47.8	51.8
	2015	714	50.5	33.9	7.7	6.2	50.5	1.5	0.3	47.8	53.0
Dubai, UAE	2011	868	64.4	27.4	2.4	4.3	64.4	0.9	0.6	67.3	61.7
	2015	1070	72.6	19.3	3.2	4.1	72.6	0.9	0.0	72.3	72.9
Florida, US	2011	364	91.0	6.7	1.1	0.7	91.0	0.5	0.0	90.0	92.0
	2015	288	91.4	5.9	0.9	0.4	91.4	1.4	0.0	92.8	90.3
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_03 (M041034): Number / Knowing Type: MC Key: A  
Label: Multiples of 3

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	55.3	55.3	22.5	12.4	7.3	2.5	0.1	56.6	54.1
	2015	875	58.3	58.3	20.6	10.5	8.3	1.9	0.4	56.5	60.5
Bahrain	2011	588	35.9	35.9	37.0	18.1	6.0	2.7	0.3	39.1	32.8
	2015	599	54.4	54.4	26.6	6.1	9.7	3.1	0.1	57.9	50.9
Belgium (Flemish)	2011	694	74.9	74.9	10.3	9.0	3.7	2.2	0.0	75.8	73.9
	2015	765	71.9	71.9	11.3	10.2	2.8	3.5	0.2	74.2	69.7
Chile	2011	802	24.3	24.3	27.5	40.7	3.7	3.0	0.8	25.8	23.0
	2015	649	23.7	23.7	35.8	31.2	4.8	3.3	1.3	22.1	25.0
Chinese Taipei	2011	616	76.1	76.1	11.8	8.6	2.8	0.5	0.2	75.0	77.1
	2015	614	74.0	74.0	14.4	7.8	2.9	0.9	0.0	74.2	73.8
Croatia	2011	659	53.8	53.8	21.8	17.2	3.8	3.3	0.0	58.7	49.2
	2015	570	47.2	47.2	29.8	16.0	5.5	1.5	0.0	47.7	46.8
Czech Republic	2011	661	84.6	84.6	6.3	3.1	3.6	2.3	0.0	85.6	83.7
	2015	749	86.4	86.4	5.9	3.0	3.6	1.0	0.0	84.9	87.8
Denmark	2011	567	82.5	82.5	5.6	2.7	5.8	3.3	0.1	84.0	81.1
	2015	531	84.0	84.0	4.9	2.8	5.8	2.3	0.3	84.9	83.0
England	2011	486	73.3	73.3	10.9	4.4	7.2	3.9	0.3	73.6	73.0
	2015	569	81.8	81.8	7.1	3.1	5.2	2.7	0.0	81.4	82.3
Finland	2011	648	46.2	46.2	25.2	20.1	5.7	2.8	0.0	45.1	47.4
	2015	717	38.8	38.8	24.8	28.2	5.5	2.8	0.0	40.5	37.1
Georgia	2011	687	35.3	35.3	28.4	21.7	5.2	9.0	0.4	40.0	31.3
	2015	553	29.6	29.6	36.1	22.7	4.7	6.7	0.3	31.1	28.2
Germany	2011	581	84.4	84.4	7.7	2.4	3.5	2.1	0.0	87.8	80.9
	2015	554	76.7	76.7	12.8	3.6	4.0	3.0	0.0	80.5	72.5
Hong Kong SAR	2011	566	95.5	95.5	1.8	1.2	0.8	0.7	0.0	96.6	94.5
	2015	517	95.7	95.7	1.6	1.4	1.3	0.0	0.0	95.8	95.7
Hungary	2011	743	70.3	70.3	12.7	9.6	5.7	1.5	0.2	72.9	68.0
	2015	715	69.6	69.6	13.0	8.6	5.8	3.0	0.0	71.0	68.2
Iran, Islamic Rep. of	2011	816	41.3	41.3	22.1	28.2	3.7	4.6	0.1	44.6	38.0
	2015	542	24.5	24.5	28.0	36.0	4.0	6.9	0.6	31.7	17.2
Ireland	2011	643	61.7	61.7	21.0	7.6	8.1	1.6	0.1	65.8	57.4
	2015	626	64.5	64.5	18.8	10.6	4.6	1.4	0.1	65.0	63.9
Italy	2011	600	63.2	63.2	19.3	9.2	4.0	4.2	0.2	64.0	62.3
	2015	624	69.0	69.0	15.8	9.7	2.4	3.1	0.0	65.2	72.7
Japan	2011	628	71.9	71.9	15.7	6.4	4.3	1.8	0.0	68.6	75.1
	2015	621	71.5	71.5	12.7	9.3	5.9	0.6	0.0	69.2	74.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_03 (M041034): Number / Knowing      Type: MC      Key: A  
Label: Multiples of 3

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	86.7	86.7	4.8	3.0	4.6	0.7	0.2	87.5	85.9
	2015	668	89.0	89.0	3.4	4.5	3.0	0.1	0.0	89.3	88.7
Korea, Rep. of	2011	618	71.3	71.3	15.7	10.7	1.6	0.6	0.1	68.8	73.8
	2015	664	68.5	68.5	19.9	8.8	2.5	0.3	0.0	69.6	67.4
Kuwait	2011	582	32.1	32.1	37.4	14.1	10.8	5.3	0.3	36.7	27.0
	2015	490	37.2	37.2	34.4	10.2	9.3	7.0	1.9	40.9	34.0
Lithuania	2011	663	21.4	21.4	38.6	30.1	3.2	6.6	0.2	22.2	20.6
	2015	517	18.1	18.1	44.0	30.2	3.2	4.1	0.4	19.3	16.8
Morocco	2011	1047	30.1	30.1	31.6	24.9	10.1	2.8	0.3	31.1	29.3
	2015	731	39.5	39.5	25.7	18.8	9.8	5.7	0.6	42.4	36.7
Netherlands	2011	465	47.1	47.1	25.8	21.5	3.0	2.7	0.0	47.9	45.4
	2015	650	48.3	48.3	26.9	16.0	4.1	4.5	0.2	41.6	55.3
New Zealand	2011	798	49.6	49.6	26.5	13.6	8.2	1.9	0.1	49.8	49.5
	2015	904	51.0	51.0	23.0	17.7	6.1	2.0	0.1	52.5	49.5
Northern Ireland	2011	516	84.1	84.1	5.1	2.8	3.8	4.2	0.0	84.4	83.8
	2015	449	85.4	85.4	5.7	3.0	4.2	1.7	0.0	88.8	82.3
Oman	2011	1497	34.3	34.3	38.1	15.7	7.5	3.7	0.7	36.9	31.6
	2015	1300	44.8	44.8	31.1	11.8	9.3	2.6	0.3	50.1	40.4
Portugal	2011	575	84.5	84.5	6.6	3.0	4.7	1.3	0.0	87.7	81.6
	2015	685	90.1	90.1	5.2	1.2	3.1	0.4	0.0	90.0	90.2
Qatar	2011	591	51.5	51.5	21.0	18.2	6.9	2.0	0.4	55.0	48.7
	2015	728	55.6	55.6	22.1	10.8	7.7	3.0	0.8	57.8	53.4
Russian Federation	2011	642	91.6	91.6	2.6	1.4	3.1	1.4	0.0	91.7	91.5
	2015	705	95.8	95.8	1.2	0.5	1.5	0.8	0.0	96.2	95.5
Saudi Arabia	2011	673	28.1	28.1	43.7	19.7	6.8	1.7	0.0	26.7	29.7
	2015	621	23.7	23.7	38.3	25.2	9.2	2.6	1.0	27.1	20.5
Serbia	2011	625	22.2	22.2	33.0	38.1	0.8	5.9	0.0	22.4	22.0
	2015	589	22.4	22.4	32.2	38.7	1.2	5.4	0.1	22.6	22.2
Singapore	2011	903	94.5	94.5	2.5	0.9	2.1	0.0	0.0	94.6	94.5
	2015	939	93.6	93.6	2.5	1.2	2.5	0.2	0.0	94.9	92.5
Slovak Republic	2011	795	84.1	84.1	6.2	2.7	6.0	0.9	0.1	85.3	82.8
	2015	818	80.7	80.7	7.9	4.9	5.4	1.2	0.0	81.4	80.1
Slovenia	2011	642	80.6	80.6	9.4	3.1	5.4	1.6	0.0	82.5	78.7
	2015	628	82.6	82.6	9.0	2.7	5.1	0.7	0.0	82.2	82.9
Spain	2011	585	28.3	28.3	37.5	23.3	2.1	8.9	0.0	28.5	28.0
	2015	1110	30.5	30.5	32.8	27.7	3.9	4.8	0.4	27.7	33.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M01\_03 (M041034): Number / Knowing Type: MC Key: A  
Label: Multiples of 3

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	34.3	34.3	27.9	25.8	6.2	5.6	0.2	36.1	32.9
	2015	588	38.0	38.0	24.3	22.1	6.9	8.6	0.1	38.0	37.8
Turkey	2011	1083	46.0	46.0	20.6	17.6	12.4	3.1	0.2	49.2	43.2
	2015	926	48.2	48.2	19.4	17.7	12.2	2.4	0.1	47.9	48.5
United Arab Emirates	2011	2070	52.3	52.3	25.5	11.6	8.0	2.1	0.5	56.0	48.5
	2015	3037	55.7	55.7	22.1	12.2	6.4	3.4	0.1	57.8	53.9
United States	2011	1800	75.9	75.9	9.7	6.0	7.0	1.3	0.1	77.3	74.4
	2015	1447	75.5	75.5	10.6	6.7	4.7	2.1	0.4	76.4	74.6
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International Avg (n=40)	2011	30291	59.0	59.0	19.4	13.3	5.2	2.9	0.2	60.4	57.7
	2015	30584	59.9	59.9	19.0	12.8	5.2	2.8	0.2	60.7	59.1
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Ontario, Canada	2011	640	42.1	42.1	28.9	15.7	9.8	3.3	0.1	42.8	41.4
	2015	652	43.3	43.3	30.4	14.6	10.1	1.4	0.1	41.7	44.5
Quebec, Canada	2011	616	52.8	52.8	23.7	13.0	8.1	2.5	0.0	52.6	53.1
	2015	398	49.8	49.8	27.0	12.5	10.0	0.7	0.0	52.3	47.8
Norway (4)	2011	439	73.8	73.8	11.5	5.2	8.0	1.3	0.2	76.4	71.3
	2015	597	76.3	76.3	10.7	3.8	6.8	2.0	0.5	78.2	74.2
Abu Dhabi, UAE	2011	588	47.3	47.3	28.2	12.9	8.5	2.4	0.6	51.9	42.6
	2015	714	46.3	46.3	26.4	15.2	7.2	4.6	0.3	46.2	46.3
Dubai, UAE	2011	868	64.6	64.6	16.7	8.0	7.7	2.5	0.6	66.9	62.5
	2015	1070	72.0	72.0	13.7	6.6	5.5	2.2	0.0	76.5	68.1
Florida, US	2011	364	83.7	83.7	7.1	1.7	6.6	1.0	0.0	83.7	83.7
	2015	288	81.6	81.6	6.8	5.3	5.0	0.9	0.4	85.7	78.2
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_04 (M041087): Number / Knowing      Type: CR    1 Point  
Label: Add 0.36 + 0.77

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	48.5	10.3	2.9	36.2	2.0	0.1	48.5	49.9	47.2
	2015	875	54.5	8.8	5.0	29.4	1.9	0.4	54.5	50.9	58.8
Bahrain	2011	588	43.3	18.2	11.1	25.2	2.0	0.3	43.3	50.3	36.3
	2015	599	32.9	22.4	11.8	29.5	3.3	0.1	32.9	38.6	27.2
Belgium (Flemish)	2011	694	69.3	6.7	3.1	20.4	0.5	0.0	69.3	65.1	73.6
	2015	765	71.6	6.6	2.3	18.3	0.9	0.2	71.6	68.1	75.3
Chile	2011	802	26.7	37.2	8.7	23.5	3.1	0.8	26.7	24.6	28.5
	2015	674	40.2	22.4	6.8	22.5	6.8	1.3	40.2	41.8	38.9
Chinese Taipei	2011	616	92.2	0.5	0.0	7.0	0.2	0.2	92.2	94.5	90.2
	2015	614	92.4	0.0	0.6	6.1	0.9	0.0	92.4	92.4	92.4
Croatia	2011	659	37.3	31.3	8.7	14.9	7.7	0.0	37.3	29.8	44.4
	2015	570	33.4	42.9	5.5	16.0	2.2	0.0	33.4	29.9	36.2
Czech Republic	2011	661	32.7	27.5	7.6	23.2	9.1	0.0	32.7	27.2	38.0
	2015	749	42.2	26.1	6.7	21.3	3.7	0.0	42.2	37.9	46.3
Denmark	2011	567	67.5	6.0	2.2	21.9	1.9	0.4	67.5	69.6	65.4
	2015	531	73.5	3.6	2.5	17.5	2.6	0.3	73.5	76.2	70.8
England	2011	486	62.4	5.7	2.3	27.0	2.3	0.3	62.4	63.7	61.1
	2015	569	72.5	3.6	3.8	19.1	0.9	0.0	72.5	73.9	70.9
Finland	2011	648	56.4	9.4	0.3	31.2	2.7	0.0	56.4	47.3	65.6
	2015	717	53.9	12.3	0.6	31.4	1.9	0.0	53.9	49.9	57.6
Georgia	2011	689	22.3	40.2	8.4	21.8	6.4	0.8	22.3	20.7	23.8
	2015	553	29.2	36.5	5.9	20.5	7.7	0.3	29.2	26.4	31.5
Germany	2011	581	64.3	17.2	1.4	15.5	1.6	0.0	64.3	70.0	58.4
	2015	554	57.3	17.2	1.3	20.2	4.0	0.0	57.3	57.0	57.4
Hong Kong SAR	2011	566	63.5	0.9	17.5	17.3	0.8	0.0	63.5	58.3	68.2
	2015	517	70.0	0.9	14.9	14.1	0.2	0.0	70.0	67.0	72.6
Hungary	2011	742	40.2	27.6	9.8	18.7	3.7	0.2	40.2	39.6	40.7
	2015	715	39.4	32.1	6.4	19.7	2.4	0.0	39.4	35.8	43.2
Iran, Islamic Rep. of	2011	816	4.4	44.2	5.4	31.7	14.2	0.1	4.4	3.5	5.3
	2015	542	17.6	21.3	12.3	37.8	10.3	0.6	17.6	18.9	16.3
Ireland	2011	643	64.9	15.6	2.0	16.4	0.9	0.1	64.9	69.1	60.6
	2015	626	73.1	6.8	2.1	17.7	0.2	0.1	73.1	77.2	69.1
Italy	2011	600	66.6	11.0	4.1	15.4	2.7	0.2	66.6	66.4	66.9
	2015	624	65.6	9.9	3.5	19.2	1.8	0.0	65.6	66.8	64.5
Japan	2011	628	87.7	0.3	0.3	11.3	0.2	0.1	87.7	89.4	86.1
	2015	621	89.3	0.0	0.0	10.7	0.0	0.0	89.3	92.6	85.8

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_04 (M041087): Number / Knowing      Type: CR    1 Point  
Label: Add 0.36 + 0.77

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	66.3	2.9	13.5	15.7	1.2	0.5	66.3	62.0	70.7
	2015	668	71.4	4.4	5.9	16.6	1.8	0.0	71.4	69.2	73.5
Korea, Rep. of	2011	618	94.3	0.5	0.6	4.4	0.0	0.1	94.3	94.0	94.6
	2015	664	93.0	1.0	0.3	5.7	0.0	0.0	93.0	91.5	94.4
Kuwait	2011	585	23.3	6.5	6.9	54.0	8.8	0.4	23.3	30.3	15.4
	2015	489	16.6	19.8	4.6	46.0	11.0	1.9	16.6	17.8	15.6
Lithuania	2011	663	62.8	13.4	2.1	21.0	0.6	0.2	62.8	60.3	65.0
	2015	649	66.4	11.9	2.8	17.6	0.8	0.4	66.4	63.4	69.4
Morocco	2011	1137	29.6	15.1	2.2	35.2	17.4	0.5	29.6	31.5	28.1
	2015	721	51.6	7.0	4.6	33.3	3.0	0.6	51.6	54.2	49.2
Netherlands	2011	465	66.7	13.7	2.0	16.9	0.6	0.0	66.7	67.7	65.0
	2015	651	66.0	12.1	1.4	19.6	0.7	0.2	66.0	62.5	69.8
New Zealand	2011	798	34.4	14.4	6.1	42.4	2.7	0.1	34.4	33.2	35.6
	2015	904	43.4	6.9	4.1	41.3	4.0	0.3	43.4	39.5	47.3
Northern Ireland	2011	516	77.5	6.6	1.8	13.3	0.9	0.0	77.5	80.3	74.6
	2015	452	80.6	3.2	1.0	14.9	0.3	0.0	80.6	81.3	80.0
Oman	2011	1497	16.5	24.2	9.5	44.4	4.8	0.7	16.5	18.6	14.4
	2015	1306	31.2	18.4	9.6	37.7	2.8	0.3	31.2	34.3	28.6
Portugal	2011	575	84.3	3.1	1.5	10.7	0.4	0.0	84.3	83.5	85.1
	2015	685	81.4	3.2	3.2	11.1	1.1	0.0	81.4	82.5	80.4
Qatar	2011	591	33.1	16.6	6.8	39.0	4.1	0.4	33.1	37.4	29.5
	2015	728	56.4	5.9	5.6	28.6	2.7	0.8	56.4	58.1	54.7
Russian Federation	2011	642	50.1	19.0	12.0	15.7	3.1	0.0	50.1	50.5	49.7
	2015	705	60.2	18.1	7.8	11.8	2.1	0.0	60.2	58.8	61.5
Saudi Arabia	2011	674	30.5	16.2	9.2	40.6	3.6	0.0	30.5	34.6	25.9
	2015	622	15.3	20.0	5.7	50.7	7.4	1.0	15.3	16.6	14.2
Serbia	2011	625	45.1	26.3	13.3	13.2	2.1	0.0	45.1	40.5	49.8
	2015	589	43.5	25.1	11.6	16.1	3.6	0.1	43.5	39.8	46.9
Singapore	2011	903	91.8	0.6	0.4	7.1	0.1	0.0	91.8	94.8	88.8
	2015	939	91.8	0.7	0.2	7.4	0.0	0.0	91.8	93.0	90.7
Slovak Republic	2011	795	46.2	25.0	5.9	19.2	3.6	0.1	46.2	46.6	45.8
	2015	818	38.5	27.3	4.1	25.2	4.9	0.1	38.5	37.0	39.7
Slovenia	2011	642	29.6	44.3	3.2	19.1	3.8	0.0	29.6	26.4	32.8
	2015	628	41.9	27.3	3.8	24.2	2.9	0.0	41.9	38.6	44.5
Spain	2011	585	51.0	26.8	3.1	17.1	2.1	0.0	51.0	54.9	47.4
	2015	1110	59.7	22.9	1.8	14.0	1.4	0.4	59.7	61.6	57.9

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_04 (M041087): Number / Knowing      Type: CR    1 Point  
Label: Add 0.36 + 0.77

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	35.5	28.4	3.2	25.0	7.8	0.2	35.5	29.5	40.3
	2015	587	47.1	20.6	3.3	22.9	5.7	0.5	47.1	43.5	50.4
Turkey	2011	1083	36.3	20.9	16.4	23.7	2.5	0.2	36.3	36.3	36.3
	2015	926	33.7	28.5	12.6	23.0	2.0	0.1	33.7	31.9	35.5
United Arab Emirates	2011	2070	33.5	18.1	8.9	35.1	3.9	0.5	33.5	34.3	32.7
	2015	3037	45.8	12.0	6.9	31.6	3.5	0.1	45.8	46.3	45.4
United States	2011	1800	74.0	8.5	4.6	12.6	0.3	0.1	74.0	76.9	70.7
	2015	1447	70.2	8.6	6.3	13.1	1.5	0.4	70.2	70.2	70.2
-----											
International Avg (n=40)	2011	30386	51.6	16.5	5.7	22.6	3.4	0.2	51.6	51.6	51.5
	2015	30740	55.4	14.5	5.0	22.1	2.9	0.3	55.4	54.8	55.9
-----											
Ontario, Canada	2011	640	42.2	20.3	6.2	27.8	3.5	0.1	42.2	42.3	42.0
	2015	653	47.2	15.9	5.3	29.6	1.8	0.3	47.2	44.8	49.0
Quebec, Canada	2011	616	65.0	18.0	3.8	11.9	1.3	0.0	65.0	67.0	62.6
	2015	403	74.1	12.1	0.4	13.2	0.2	0.0	74.1	70.4	77.1
Norway (4)	2011	439	36.5	19.9	5.2	34.1	4.1	0.2	36.5	36.3	36.7
	2015	597	38.0	23.9	5.0	30.2	2.5	0.5	38.0	36.7	39.4
Abu Dhabi, UAE	2011	588	30.4	17.6	9.1	38.6	3.7	0.6	30.4	29.6	31.2
	2015	714	35.4	16.4	4.8	38.5	4.6	0.3	35.4	35.2	35.6
Dubai, UAE	2011	868	48.2	15.8	7.8	24.0	3.4	0.7	48.2	48.9	47.6
	2015	1070	61.3	8.8	6.2	21.8	1.9	0.0	61.3	59.8	62.6
Florida, US	2011	364	68.0	10.9	9.5	10.9	0.8	0.0	68.0	69.8	65.9
	2015	288	68.5	10.0	9.2	11.3	0.6	0.4	68.5	69.4	67.7
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_05 (M041124): Number / Applying Type: CR 1 Point  
Label: Use the rule to complete the table

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	43.8	8.9	5.3	38.2	3.7	0.1	43.8	47.2	40.6
	2015	875	50.2	8.1	2.6	35.4	3.1	0.5	50.2	49.3	51.2
Bahrain	2011	588	46.5	7.8	8.2	31.6	5.5	0.3	46.5	46.2	46.7
	2015	599	46.5	8.9	7.0	33.9	3.5	0.2	46.5	45.7	47.3
Belgium (Flemish)	2011	694	54.5	6.5	4.1	32.1	2.9	0.0	54.5	53.5	55.5
	2015	765	58.4	5.8	5.3	27.8	2.4	0.2	58.4	57.2	59.6
Chile	2011	802	49.1	8.8	4.0	27.7	9.6	0.8	49.1	51.3	47.1
	2015	674	45.0	11.8	2.9	27.7	10.6	2.0	45.0	44.3	45.7
Chinese Taipei	2011	616	78.7	4.4	3.1	12.5	1.1	0.2	78.7	81.3	76.5
	2015	614	81.2	8.3	1.6	7.6	1.2	0.0	81.2	81.3	81.1
Croatia	2011	659	61.1	7.0	6.5	17.6	7.8	0.0	61.1	66.9	55.8
	2015	570	65.5	7.0	6.4	15.6	5.4	0.1	65.5	71.0	60.9
Czech Republic	2011	661	64.7	7.6	6.0	13.4	8.2	0.0	64.7	67.9	61.7
	2015	749	68.7	5.6	5.0	16.8	3.8	0.2	68.7	66.3	70.9
Denmark	2011	567	60.2	8.3	2.9	20.2	7.7	0.6	60.2	62.1	58.3
	2015	531	63.7	6.2	3.9	20.9	5.0	0.3	63.7	62.5	64.9
England	2011	486	55.0	11.4	5.7	23.7	3.9	0.3	55.0	56.0	54.0
	2015	569	70.6	5.4	4.1	17.8	2.2	0.0	70.6	70.5	70.6
Finland	2011	648	52.5	6.0	3.7	27.8	10.1	0.0	52.5	54.6	50.2
	2015	717	56.9	8.2	2.3	24.7	7.9	0.0	56.9	65.7	48.5
Georgia	2011	689	50.9	10.4	7.7	19.3	11.0	0.8	50.9	54.3	47.8
	2015	553	56.9	12.1	5.4	18.4	6.9	0.3	56.9	63.3	51.4
Germany	2011	581	45.3	6.9	5.8	31.2	10.8	0.0	45.3	51.3	39.2
	2015	554	45.1	3.8	6.4	32.9	11.6	0.2	45.1	47.4	42.6
Hong Kong SAR	2011	566	84.7	6.6	0.3	7.0	1.4	0.0	84.7	85.1	84.3
	2015	517	87.3	4.5	0.0	7.7	0.5	0.0	87.3	87.5	87.2
Hungary	2011	742	77.7	8.3	1.4	11.2	0.9	0.3	77.7	79.1	76.5
	2015	715	84.7	6.2	1.7	6.2	1.1	0.0	84.7	89.4	79.9
Iran, Islamic Rep. of	2011	816	48.7	10.3	5.0	24.8	10.9	0.3	48.7	49.4	48.0
	2015	542	43.0	9.8	6.9	31.1	8.5	0.6	43.0	47.2	38.8
Ireland	2011	643	50.6	8.8	5.1	30.6	4.8	0.1	50.6	53.2	47.9
	2015	626	63.2	5.3	5.1	24.3	2.1	0.1	63.2	68.5	58.2
Italy	2011	600	53.1	5.6	10.8	24.9	5.4	0.2	53.1	55.5	50.7
	2015	622	59.3	4.5	8.1	21.9	6.1	0.0	59.3	59.3	59.4
Japan	2011	628	80.7	3.8	2.5	12.0	0.8	0.1	80.7	83.0	78.5
	2015	621	87.0	2.6	3.1	6.9	0.4	0.0	87.0	86.4	87.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_05 (M041124): Number / Applying Type: CR 1 Point  
Label: Use the rule to complete the table

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	66.8	3.1	1.5	22.3	5.8	0.5	66.8	68.9	64.7
	2015	668	78.3	3.4	1.4	14.2	2.7	0.0	78.3	80.3	76.4
Korea, Rep. of	2011	618	90.3	2.2	0.6	6.6	0.1	0.1	90.3	88.8	91.8
	2015	664	89.9	3.5	0.2	6.2	0.2	0.0	89.9	91.0	88.8
Kuwait	2011	585	20.0	3.6	4.2	55.1	16.6	0.5	20.0	21.0	18.8
	2015	489	22.8	5.7	4.5	46.1	18.7	2.2	22.8	24.9	21.0
Lithuania	2011	663	70.6	8.3	4.0	14.2	2.8	0.2	70.6	68.1	73.0
	2015	649	72.7	7.7	5.2	12.1	2.0	0.4	72.7	72.7	72.7
Morocco	2011	1137	13.2	3.4	4.0	58.1	20.4	1.0	13.2	15.7	10.9
	2015	721	23.4	5.9	2.1	58.5	9.1	1.0	23.4	25.7	21.3
Netherlands	2011	465	31.2	3.8	1.3	58.7	4.9	0.0	31.2	33.3	27.8
	2015	651	36.8	4.4	2.4	51.6	4.4	0.2	36.8	41.0	32.5
New Zealand	2011	798	37.0	6.3	3.6	49.2	3.9	0.1	37.0	39.8	34.1
	2015	904	43.3	8.3	2.9	40.0	5.1	0.3	43.3	48.5	38.2
Northern Ireland	2011	516	72.4	9.5	3.8	12.2	2.1	0.0	72.4	75.1	69.7
	2015	452	80.1	4.7	1.9	11.4	1.9	0.0	80.1	81.5	78.9
Oman	2011	1497	27.3	4.5	4.9	55.2	7.4	0.7	27.3	29.6	24.9
	2015	1310	36.2	6.8	2.4	49.5	4.8	0.4	36.2	38.5	34.2
Portugal	2011	575	60.8	7.5	8.2	21.5	1.9	0.0	60.8	61.7	60.1
	2015	685	69.5	5.8	4.2	18.5	2.1	0.0	69.5	74.0	65.2
Qatar	2011	591	38.0	5.6	4.8	46.1	5.1	0.4	38.0	41.3	35.3
	2015	728	51.5	5.4	4.2	34.2	4.0	0.8	51.5	52.3	50.6
Russian Federation	2011	642	70.1	6.5	3.9	15.1	4.3	0.0	70.1	71.5	68.8
	2015	705	80.5	5.6	2.7	9.4	1.7	0.1	80.5	82.3	78.7
Saudi Arabia	2011	674	33.9	9.7	12.3	39.8	4.3	0.0	33.9	38.0	29.2
	2015	622	26.4	6.5	14.6	43.1	8.3	1.1	26.4	31.4	21.7
Serbia	2011	625	69.1	5.2	2.8	18.0	4.9	0.0	69.1	75.9	62.3
	2015	589	66.4	4.6	8.1	15.3	5.6	0.1	66.4	66.3	66.4
Singapore	2011	903	76.8	6.7	1.6	14.3	0.5	0.0	76.8	79.8	73.9
	2015	939	80.9	5.5	2.1	11.4	0.0	0.0	80.9	85.7	76.8
Slovak Republic	2011	795	61.3	7.3	6.3	19.4	5.6	0.2	61.3	62.3	60.3
	2015	818	57.6	9.6	6.7	18.5	7.5	0.1	57.6	57.6	57.6
Slovenia	2011	642	53.1	5.8	4.6	25.8	10.6	0.0	53.1	58.2	48.0
	2015	628	57.2	6.5	3.7	24.2	8.2	0.1	57.2	60.9	54.2
Spain	2011	585	63.8	7.9	3.1	19.1	6.0	0.0	63.8	62.7	64.8
	2015	1110	70.8	7.9	2.9	14.1	4.0	0.4	70.8	70.9	70.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_05 (M041124): Number / Applying Type: CR 1 Point  
Label: Use the rule to complete the table

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	31.2	5.2	3.3	43.4	16.7	0.3	31.2	31.3	31.1
	2015	587	38.2	6.1	3.9	40.2	10.7	0.8	38.2	38.2	38.0
Turkey	2011	1083	52.7	10.2	4.7	27.2	5.1	0.2	52.7	57.5	48.6
	2015	926	59.1	8.1	5.9	23.2	3.6	0.1	59.1	62.1	56.2
United Arab Emirates	2011	2070	42.3	6.6	7.0	37.1	6.4	0.5	42.3	46.8	37.7
	2015	3036	47.3	6.0	4.9	36.7	5.1	0.1	47.3	47.4	47.1
United States	2011	1800	68.3	7.2	4.3	19.2	1.0	0.1	68.3	70.5	66.0
	2015	1447	66.0	6.4	4.1	21.0	2.1	0.4	66.0	69.5	62.3
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International Avg (n=40)	2011	30386	55.2	6.8	4.6	27.1	6.1	0.2	55.2	57.4	53.0
	2015	30741	59.7	6.5	4.2	24.4	4.8	0.3	59.7	61.6	57.9
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Ontario, Canada	2011	640	45.9	9.6	5.8	33.7	5.0	0.1	45.9	44.7	47.2
	2015	653	46.1	9.5	5.2	35.3	3.5	0.4	46.1	47.6	44.3
Quebec, Canada	2011	616	52.3	8.8	5.4	28.8	4.8	0.0	52.3	50.7	54.2
	2015	403	55.9	10.2	5.9	26.3	1.7	0.0	55.9	62.1	51.0
Norway (4)	2011	439	41.8	6.3	4.7	38.4	8.6	0.2	41.8	50.4	33.5
	2015	597	46.9	8.5	3.7	33.1	6.9	0.7	46.9	47.3	46.5
Abu Dhabi, UAE	2011	588	36.4	5.6	7.3	43.6	6.5	0.6	36.4	39.3	33.4
	2015	713	37.4	5.0	4.9	47.1	5.3	0.3	37.4	35.3	39.3
Dubai, UAE	2011	868	55.5	6.3	7.3	24.0	6.1	0.7	55.5	62.3	49.3
	2015	1070	63.5	6.5	3.4	23.8	2.8	0.1	63.5	67.3	60.2
Florida, US	2011	364	69.2	9.0	1.1	18.9	1.9	0.0	69.2	70.6	67.7
	2015	288	72.5	6.8	2.1	17.3	0.9	0.4	72.5	78.0	67.9
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06A (M041302A): Geometric Shapes and Measures / Knowing Type: MC Key: C  
Label: What shape is made

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	74.0	3.1	12.7	74.0	7.7	2.3	0.2	77.0	71.1
	2015	875	74.5	3.3	13.3	74.5	6.0	2.4	0.5	72.0	77.6
Bahrain	2011	588	59.0	6.5	20.2	59.0	12.5	1.5	0.3	60.1	58.0
	2015	599	55.6	7.4	22.7	55.6	11.6	2.5	0.2	59.8	51.2
Belgium (Flemish)	2011	694	92.3	1.3	2.4	92.3	3.1	1.0	0.0	94.1	90.4
	2015	765	92.4	0.9	1.9	92.4	4.3	0.4	0.2	92.0	92.8
Chile	2011	802	44.0	3.4	41.3	44.0	9.0	1.3	0.9	42.3	45.5
	2015	675	32.1	2.8	49.2	32.1	12.4	1.3	2.2	32.5	31.7
Chinese Taipei	2011	616	76.8	1.8	3.4	76.8	17.7	0.2	0.2	81.0	73.2
	2015	614	82.8	1.6	1.5	82.8	13.5	0.5	0.0	81.8	83.7
Croatia	2011	659	78.2	2.5	10.2	78.2	8.0	1.1	0.0	79.0	77.4
	2015	570	80.3	4.5	9.4	80.3	4.9	0.7	0.1	80.1	80.6
Czech Republic	2011	661	84.9	2.5	6.2	84.9	5.8	0.6	0.0	84.2	85.5
	2015	749	85.7	1.8	6.0	85.7	5.9	0.5	0.2	84.6	86.6
Denmark	2011	567	88.2	2.3	2.0	88.2	4.0	2.9	0.6	88.8	87.7
	2015	531	89.0	2.9	1.8	89.0	3.0	2.8	0.5	86.5	91.5
England	2011	486	82.1	1.6	9.3	82.1	5.7	1.0	0.3	82.7	81.5
	2015	569	83.6	2.0	9.7	83.6	3.3	1.4	0.0	84.4	82.7
Finland	2011	648	94.1	0.3	1.6	94.1	3.0	1.0	0.0	95.5	92.8
	2015	717	94.1	0.8	1.9	94.1	1.7	1.3	0.1	93.9	94.3
Georgia	2011	690	65.5	14.1	4.9	65.5	10.1	4.6	0.8	67.9	63.4
	2015	553	57.3	19.5	5.0	57.3	10.7	7.1	0.5	62.3	52.9
Germany	2011	581	91.4	0.7	2.7	91.4	3.5	1.6	0.0	91.5	91.3
	2015	554	89.5	0.4	4.6	89.5	3.1	1.9	0.4	90.5	88.5
Hong Kong SAR	2011	566	89.8	1.4	1.2	89.8	6.8	0.9	0.0	92.1	87.7
	2015	517	89.7	0.8	3.5	89.7	6.0	0.0	0.0	91.2	88.4
Hungary	2011	743	89.1	1.5	3.1	89.1	4.7	1.2	0.4	90.4	88.0
	2015	715	90.2	0.4	3.7	90.2	4.3	1.2	0.1	90.8	89.7
Iran, Islamic Rep. of	2011	816	76.3	3.5	4.4	76.3	11.6	3.5	0.7	79.0	73.5
	2015	540	64.2	8.9	8.0	64.2	14.7	3.5	0.7	66.2	62.1
Ireland	2011	643	75.9	1.4	17.4	75.9	4.7	0.6	0.1	78.8	72.8
	2015	626	79.2	2.9	14.1	79.2	3.4	0.2	0.1	79.6	78.8
Italy	2011	600	60.9	3.8	29.1	60.9	4.5	1.5	0.2	59.7	62.2
	2015	624	58.2	2.7	32.4	58.2	5.5	1.2	0.0	54.7	61.6
Japan	2011	628	91.8	0.9	2.9	91.8	4.0	0.1	0.1	93.3	90.4
	2015	621	94.0	0.8	2.0	94.0	3.2	0.0	0.0	96.0	92.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M01\_06A (M041302A): Geometric Shapes and Measures / Knowing Type: MC Key: C  
Label: What shape is made

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	68.9	6.9	6.8	68.9	15.3	1.5	0.5	68.0	69.9
	2015	668	74.7	5.1	6.5	74.7	12.8	0.8	0.1	73.9	75.5
Korea, Rep. of	2011	618	95.8	0.3	0.4	95.8	3.0	0.3	0.1	96.3	95.3
	2015	664	96.5	0.5	0.9	96.5	2.1	0.0	0.0	96.9	96.1
Kuwait	2011	583	32.3	15.3	19.1	32.3	24.6	7.7	1.1	35.4	28.7
	2015	489	29.8	18.3	24.4	29.8	18.9	4.9	3.6	33.3	26.8
Lithuania	2011	663	86.1	4.7	4.3	86.1	3.9	0.8	0.2	88.8	83.6
	2015	649	87.7	3.4	3.1	87.7	4.6	0.8	0.4	88.8	86.7
Morocco	2011	1089	48.3	17.8	15.0	48.3	12.5	5.1	1.3	50.4	46.4
	2015	728	50.4	14.2	16.1	50.4	14.3	3.7	1.2	48.9	51.9
Netherlands	2011	465	83.0	2.2	9.0	83.0	5.2	0.6	0.0	83.1	82.8
	2015	651	84.1	2.4	6.3	84.1	5.6	1.2	0.4	85.2	82.9
New Zealand	2011	798	64.2	3.2	19.1	64.2	11.0	2.4	0.1	65.9	62.4
	2015	904	66.1	3.6	18.4	66.1	9.9	1.5	0.4	71.7	60.5
Northern Ireland	2011	516	87.0	2.7	6.1	87.0	4.1	0.1	0.0	89.4	84.6
	2015	450	88.1	2.0	5.2	88.1	4.6	0.0	0.0	89.8	86.6
Oman	2011	1497	49.6	10.5	21.5	49.6	15.1	2.2	1.0	53.8	45.4
	2015	1306	52.7	10.3	20.8	52.7	14.5	1.2	0.5	55.4	50.5
Portugal	2011	575	60.4	0.7	34.5	60.4	3.9	0.6	0.0	55.7	64.8
	2015	685	69.6	2.6	22.0	69.6	5.1	0.7	0.0	67.1	71.8
Qatar	2011	591	40.8	10.0	30.6	40.8	16.0	2.0	0.6	39.9	41.5
	2015	728	53.3	8.9	25.8	53.3	9.0	2.2	0.8	55.3	51.2
Russian Federation	2011	642	89.0	0.9	4.4	89.0	5.1	0.5	0.0	90.1	88.1
	2015	705	89.7	1.2	4.7	89.7	3.2	1.1	0.1	89.0	90.3
Saudi Arabia	2011	672	62.4	8.6	13.6	62.4	13.8	1.6	0.0	65.2	59.2
	2015	618	48.1	15.4	16.4	48.1	17.4	1.5	1.2	56.6	40.1
Serbia	2011	624	80.6	2.0	7.0	80.6	9.5	0.9	0.0	80.9	80.3
	2015	589	74.9	2.8	10.8	74.9	8.2	3.2	0.1	74.0	75.6
Singapore	2011	903	74.5	1.9	19.8	74.5	3.5	0.4	0.0	74.3	74.6
	2015	939	77.2	1.6	15.9	77.2	5.0	0.4	0.0	78.4	76.1
Slovak Republic	2011	795	86.5	2.6	4.0	86.5	6.3	0.5	0.2	88.1	84.7
	2015	818	75.5	3.5	10.7	75.5	9.0	1.3	0.1	75.4	75.6
Slovenia	2011	642	92.4	2.1	1.5	92.4	3.1	0.9	0.0	91.3	93.4
	2015	628	92.6	2.2	1.5	92.6	2.7	0.8	0.1	94.5	91.2
Spain	2011	585	54.4	3.0	36.4	54.4	4.6	1.6	0.0	53.7	55.0
	2015	1110	60.8	1.6	29.1	60.8	7.3	0.7	0.5	57.6	63.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_06A (M041302A): Geometric Shapes and Measures / Knowing Type: MC Key: C  
Label: What shape is made

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	86.3	1.4	5.5	86.3	4.3	2.2	0.3	85.0	87.3
	2015	588	87.8	1.1	4.3	87.8	4.6	1.1	1.1	88.3	87.4
Turkey	2011	1083	44.9	14.0	11.3	44.9	29.2	0.4	0.2	45.8	44.1
	2015	926	47.3	13.9	13.1	47.3	25.2	0.4	0.1	48.5	46.2
United Arab Emirates	2011	2070	46.6	9.0	26.5	46.6	15.1	2.1	0.7	49.1	43.9
	2015	3037	51.1	8.7	25.3	51.1	11.9	2.8	0.1	53.4	49.1
United States	2011	1800	74.8	1.7	15.6	74.8	6.5	1.3	0.1	75.0	74.6
	2015	1447	75.5	3.6	13.4	75.5	6.3	0.8	0.4	76.6	74.3
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International Avg (n=40)	2011	30335	73.1	4.4	12.2	73.1	8.6	1.6	0.3	74.1	72.1
	2015	30741	73.2	4.8	12.1	73.2	8.0	1.5	0.4	73.9	72.4
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Ontario, Canada	2011	640	76.1	2.8	15.0	76.1	4.8	1.0	0.2	78.3	73.9
	2015	653	76.6	3.9	13.4	76.6	5.1	0.6	0.4	76.0	77.2
Quebec, Canada	2011	616	69.5	1.2	22.8	69.5	5.9	0.7	0.0	68.4	70.7
	2015	402	67.4	1.8	25.8	67.4	4.8	0.1	0.0	68.3	66.8
Norway (4)	2011	439	86.4	2.2	4.7	86.4	5.2	1.3	0.2	86.5	86.2
	2015	597	84.1	2.0	4.7	84.1	7.4	0.8	0.9	86.1	82.0
Abu Dhabi, UAE	2011	588	41.6	10.2	29.4	41.6	15.5	2.7	0.6	42.4	40.8
	2015	714	43.7	11.5	26.6	43.7	13.8	4.1	0.3	47.7	40.1
Dubai, UAE	2011	868	54.3	6.1	24.7	54.3	12.5	1.7	0.7	57.5	51.5
	2015	1070	66.9	4.8	19.9	66.9	6.7	1.6	0.1	67.5	66.4
Florida, US	2011	364	76.3	1.3	14.5	76.3	7.1	0.5	0.3	77.1	75.3
	2015	288	71.7	0.9	17.4	71.7	9.3	0.3	0.4	76.5	67.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_06B (M041302B): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: What points did you connect

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	63.9	3.2	0.9	18.8	12.4	0.6	0.2	63.9	69.3	58.8
	2015	875	63.4	5.0	0.9	19.4	9.8	0.9	0.5	63.4	65.8	60.6
Bahrain	2011	588	44.4	3.9	2.0	20.2	26.6	2.5	0.4	44.4	47.4	41.5
	2015	596	41.6	2.7	1.2	19.9	31.4	2.7	0.4	41.6	47.9	35.3
Belgium (Flemish)	2011	694	74.4	1.7	0.1	14.0	9.1	0.7	0.0	74.4	78.4	70.4
	2015	765	71.6	3.3	0.3	16.9	6.8	0.8	0.2	71.6	71.9	71.3
Chile	2011	802	48.3	3.7	1.9	21.3	21.1	2.7	1.0	48.3	50.4	46.6
	2015	674	54.4	4.3	1.2	15.0	20.0	2.7	2.4	54.4	54.6	54.2
Chinese Taipei	2011	616	59.4	2.8	0.0	28.8	8.1	0.6	0.2	59.4	62.4	56.9
	2015	614	63.2	1.6	0.4	27.8	6.1	0.8	0.0	63.2	67.2	59.8
Croatia	2011	659	54.4	2.5	1.3	23.4	16.7	1.8	0.0	54.4	56.5	52.4
	2015	570	68.3	1.1	2.4	11.8	15.0	1.2	0.1	68.3	68.7	68.0
Czech Republic	2011	661	57.0	5.2	1.1	24.7	10.6	1.4	0.0	57.0	59.3	54.9
	2015	749	66.4	2.3	1.2	19.6	9.3	0.9	0.3	66.4	73.3	60.2
Denmark	2011	567	75.0	4.7	0.5	6.2	10.7	2.4	0.6	75.0	79.0	71.0
	2015	531	73.3	5.7	0.7	8.2	9.1	2.1	0.9	73.3	74.8	71.8
England	2011	486	60.9	4.9	0.7	20.9	11.5	0.9	0.3	60.9	58.3	63.5
	2015	569	64.6	3.4	1.7	21.5	8.0	0.7	0.0	64.6	66.9	62.0
Finland	2011	648	74.2	4.3	2.1	13.9	4.2	1.2	0.1	74.2	76.3	72.1
	2015	717	76.3	2.3	0.4	14.6	5.9	0.2	0.2	76.3	81.5	71.4
Georgia	2011	690	40.9	10.5	2.4	21.0	20.6	3.6	1.0	40.9	46.7	35.8
	2015	553	49.3	3.4	4.3	15.8	21.3	5.1	0.7	49.3	51.9	47.1
Germany	2011	581	65.8	3.5	0.8	21.6	7.2	1.1	0.0	65.8	68.0	63.5
	2015	554	66.6	2.5	0.2	21.3	8.0	1.0	0.4	66.6	71.6	61.5
Hong Kong SAR	2011	566	60.6	14.5	1.6	15.9	7.1	0.4	0.0	60.6	64.0	57.6
	2015	517	59.1	13.2	2.5	21.5	3.7	0.0	0.0	59.1	56.4	61.5
Hungary	2011	741	66.8	4.4	0.5	14.2	12.2	1.3	0.4	66.8	70.8	63.2
	2015	715	66.5	1.9	1.6	18.3	10.4	1.2	0.1	66.5	66.5	66.5
Iran, Islamic Rep. of	2011	816	41.8	6.6	0.3	23.3	23.4	3.7	0.8	41.8	44.5	39.1
	2015	540	38.3	1.8	0.0	23.4	29.6	5.7	1.2	38.3	42.9	33.5
Ireland	2011	643	62.3	4.6	1.5	21.6	9.6	0.2	0.1	62.3	62.8	61.8
	2015	626	62.4	6.8	0.5	23.5	6.5	0.3	0.1	62.4	62.6	62.2
Italy	2011	600	52.0	12.5	0.8	21.0	12.5	0.9	0.2	52.0	55.5	48.5
	2015	624	46.3	21.6	1.4	12.5	17.1	1.1	0.0	46.3	42.8	49.7
Japan	2011	628	75.7	9.1	1.1	5.3	8.0	0.5	0.1	75.7	82.0	69.6
	2015	621	73.3	7.2	2.9	9.1	7.0	0.4	0.0	73.3	78.0	68.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06B (M041302B): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: What points did you connect

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	60.4	0.4	1.8	8.2	21.0	7.5	0.7	60.4	59.4	61.4
	2015	668	57.4	3.0	1.2	7.1	24.3	7.1	0.1	57.4	61.9	53.1
Korea, Rep. of	2011	618	74.2	3.3	1.3	15.5	5.2	0.3	0.1	74.2	75.2	73.2
	2015	664	75.7	2.9	1.2	15.1	5.1	0.0	0.0	75.7	81.1	70.5
Kuwait	2011	586	19.5	3.0	0.7	13.3	53.4	8.9	1.2	19.5	22.1	16.6
	2015	490	23.9	4.6	1.3	7.3	51.5	7.6	3.8	23.9	26.4	21.7
Lithuania	2011	663	72.5	4.3	0.2	13.6	8.6	0.6	0.2	72.5	76.9	68.5
	2015	649	72.7	3.4	0.5	13.7	8.8	0.4	0.4	72.7	76.0	69.3
Morocco	2011	1137	21.9	7.2	2.9	10.4	47.0	9.1	1.5	21.9	26.7	17.5
	2015	721	18.3	10.8	1.1	10.1	54.9	3.5	1.3	18.3	19.9	16.9
Netherlands	2011	465	61.9	3.2	2.0	20.9	11.7	0.4	0.0	61.9	63.7	59.2
	2015	651	63.3	3.3	1.6	14.7	15.4	1.1	0.7	63.3	63.5	63.1
New Zealand	2011	798	56.1	4.8	1.1	22.0	15.1	0.9	0.1	56.1	59.9	52.3
	2015	904	59.7	4.4	0.8	20.0	13.6	1.0	0.4	59.7	62.5	56.8
Northern Ireland	2011	516	69.0	2.1	1.2	19.2	7.5	1.0	0.0	69.0	72.9	65.1
	2015	452	68.7	3.0	2.0	16.0	10.2	0.2	0.0	68.7	76.0	62.0
Oman	2011	1497	31.8	5.6	0.7	21.1	37.9	1.9	1.1	31.8	36.0	27.7
	2015	1308	38.0	4.5	1.4	18.2	34.4	2.9	0.5	38.0	42.7	34.1
Portugal	2011	575	61.9	6.0	1.9	20.4	9.4	0.4	0.0	61.9	59.6	64.0
	2015	685	62.4	3.5	1.4	23.6	8.6	0.5	0.0	62.4	67.2	57.9
Qatar	2011	591	39.5	3.3	0.3	16.3	38.1	2.0	0.6	39.5	40.4	38.7
	2015	728	46.0	4.4	3.0	16.2	27.7	1.9	0.8	46.0	51.5	40.3
Russian Federation	2011	642	68.7	4.0	2.8	15.7	8.0	0.9	0.0	68.7	71.3	66.2
	2015	705	68.4	4.8	4.3	13.4	8.2	0.8	0.1	68.4	70.1	66.8
Saudi Arabia	2011	674	34.1	6.0	3.1	18.6	36.3	1.7	0.2	34.1	40.6	26.8
	2015	622	29.9	4.2	0.7	15.2	41.8	6.7	1.6	29.9	37.1	23.1
Serbia	2011	625	59.3	0.9	0.2	19.2	16.6	3.7	0.1	59.3	61.0	57.6
	2015	589	51.9	2.0	0.1	17.1	25.2	3.6	0.1	51.9	55.4	48.8
Singapore	2011	903	64.1	4.6	3.0	16.9	11.0	0.4	0.0	64.1	69.0	59.3
	2015	939	64.5	6.6	2.2	14.8	11.8	0.1	0.0	64.5	66.3	62.9
Slovak Republic	2011	795	59.2	2.8	0.6	22.9	13.4	1.0	0.3	59.2	60.7	57.5
	2015	818	58.5	2.6	1.8	20.7	13.2	3.1	0.1	58.5	57.7	59.1
Slovenia	2011	642	69.6	2.6	1.0	15.5	10.0	1.2	0.0	69.6	68.3	71.0
	2015	628	70.6	5.4	1.4	9.9	11.5	1.0	0.2	70.6	73.0	68.7
Spain	2011	585	55.9	8.3	2.8	18.9	12.5	1.5	0.2	55.9	52.4	59.0
	2015	1110	61.9	4.1	0.8	19.0	12.4	1.3	0.5	61.9	64.8	59.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06B (M041302B): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: What points did you connect

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	70.6	2.7	0.6	13.7	11.4	0.8	0.3	70.6	67.7	72.9
	2015	588	71.2	4.2	0.1	11.7	10.6	1.0	1.2	71.2	72.2	70.3
Turkey	2011	1083	32.0	2.0	1.1	28.1	34.6	2.1	0.2	32.0	37.5	27.2
	2015	926	34.9	1.6	1.5	31.8	29.0	1.1	0.1	34.9	39.3	30.7
United Arab Emirates	2011	2070	36.7	4.2	1.7	23.5	31.5	1.7	0.8	36.7	41.0	32.2
	2015	3037	42.6	5.0	2.5	17.1	29.9	2.7	0.2	42.6	46.7	38.8
United States	2011	1800	67.0	2.9	0.8	17.1	10.7	1.2	0.3	67.0	69.2	64.6
	2015	1447	54.9	10.8	1.0	17.6	14.3	0.9	0.4	54.9	54.1	55.8
-----												
International Avg (n=40)	2011	30387	56.6	4.7	1.3	18.2	17.1	1.9	0.3	56.6	59.1	54.1
	2015	30739	57.5	4.7	1.4	16.8	17.2	1.9	0.5	57.5	60.3	54.9
-----												
Ontario, Canada	2011	639	69.2	4.1	0.9	14.4	10.7	0.4	0.2	69.2	71.5	66.9
	2015	653	65.8	5.4	1.0	15.4	11.7	0.1	0.5	65.8	70.1	61.8
Quebec, Canada	2011	616	69.4	4.4	14.4	4.7	6.9	0.2	0.0	69.4	68.9	69.9
	2015	403	71.8	1.5	0.7	18.5	7.4	0.0	0.0	71.8	74.3	69.9
Norway (4)	2011	439	55.3	3.3	19.5	3.2	17.6	0.7	0.5	55.3	62.0	48.9
	2015	597	60.6	3.9	1.7	17.9	14.4	0.5	1.0	60.6	62.1	58.9
Abu Dhabi, UAE	2011	588	32.6	3.2	1.9	23.2	36.7	1.6	0.7	32.6	36.5	28.8
	2015	714	37.6	5.8	2.4	16.4	34.6	2.9	0.3	37.6	45.4	30.3
Dubai, UAE	2011	868	48.1	4.9	0.9	19.9	23.8	1.7	0.7	48.1	51.0	45.4
	2015	1070	54.5	4.3	2.3	18.6	18.8	1.5	0.1	54.5	56.3	53.0
Florida, US	2011	364	66.2	4.0	1.8	13.6	13.7	0.5	0.3	66.2	66.6	65.7
	2015	288	53.3	12.2	0.7	19.3	13.8	0.3	0.4	53.3	52.3	54.2
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06C (M041302C): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: Draw a 6-sided shape

COUNTRY	Year	N	10 %	11 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	48.9	20.0	4.3	24.2	2.1	0.4	68.9	68.6	69.2
	2015	875	46.0	20.3	4.0	26.6	2.6	0.5	66.3	64.9	67.9
Bahrain	2011	588	26.7	9.7	7.7	48.6	6.7	0.6	36.4	33.3	39.3
	2015	596	18.3	17.1	9.6	47.3	7.2	0.4	35.4	40.6	30.2
Belgium (Flemish)	2011	694	60.3	13.6	4.1	20.6	1.4	0.0	73.9	76.0	71.8
	2015	765	63.3	11.4	3.3	19.3	2.5	0.2	74.8	76.7	72.7
Chile	2011	802	25.7	14.6	3.8	43.7	11.0	1.3	40.3	35.7	44.3
	2015	674	27.7	18.5	2.8	40.3	8.3	2.4	46.3	46.9	45.7
Chinese Taipei	2011	616	47.3	22.7	7.1	19.3	3.5	0.2	69.9	66.6	72.9
	2015	614	48.3	27.0	6.8	14.8	3.2	0.0	75.2	75.9	74.6
Croatia	2011	659	33.2	12.3	4.3	30.7	19.4	0.0	45.6	43.0	48.0
	2015	570	44.8	13.2	2.2	29.1	10.4	0.1	58.0	59.5	56.8
Czech Republic	2011	661	54.4	15.9	4.8	14.8	10.1	0.0	70.3	69.2	71.3
	2015	749	63.5	11.7	1.4	16.0	7.0	0.3	75.3	75.7	74.9
Denmark	2011	567	73.1	15.9	1.2	5.5	3.7	0.6	89.0	88.6	89.5
	2015	531	63.6	20.3	0.0	11.1	3.7	1.3	83.9	83.5	84.3
England	2011	486	42.9	20.8	5.7	27.5	2.8	0.3	63.7	62.2	65.1
	2015	569	39.5	19.7	8.4	28.7	3.8	0.0	59.2	59.1	59.3
Finland	2011	648	60.8	17.4	1.2	16.5	4.0	0.1	78.2	78.2	78.3
	2015	717	59.6	16.9	2.0	18.0	3.2	0.2	76.5	78.6	74.6
Georgia	2011	690	34.8	11.0	8.9	31.7	12.2	1.4	45.9	51.4	41.0
	2015	553	29.2	13.1	6.8	36.2	13.8	0.9	42.4	44.7	40.3
Germany	2011	581	52.8	16.5	1.9	22.1	6.7	0.0	69.3	69.3	69.4
	2015	554	51.5	14.8	1.8	23.3	8.2	0.4	66.4	69.8	62.7
Hong Kong SAR	2011	566	35.6	56.2	1.1	6.2	0.9	0.0	91.8	92.5	91.2
	2015	517	41.4	52.1	1.3	5.0	0.2	0.0	93.5	93.8	93.2
Hungary	2011	743	51.3	14.1	2.6	25.5	6.1	0.4	65.4	67.3	63.6
	2015	715	56.0	14.8	3.1	20.4	5.6	0.1	70.7	71.3	70.2
Iran, Islamic Rep. of	2011	816	35.1	23.2	4.3	27.5	8.7	1.2	58.3	58.2	58.5
	2015	540	25.1	28.1	4.1	32.1	7.3	3.1	53.3	52.5	54.1
Ireland	2011	643	30.0	33.3	7.0	26.8	2.8	0.1	63.3	65.9	60.5
	2015	626	39.8	28.5	5.4	24.0	2.2	0.1	68.3	68.9	67.7
Italy	2011	600	46.6	17.7	6.5	21.0	8.0	0.2	64.3	61.4	67.3
	2015	623	38.7	21.1	4.1	28.5	7.4	0.3	59.7	59.1	60.3
Japan	2011	628	75.3	15.9	1.8	6.2	0.7	0.1	91.2	94.1	88.3
	2015	621	78.1	15.4	1.2	4.6	0.7	0.0	93.5	94.3	92.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06C (M041302C): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: Draw a 6-sided shape

COUNTRY	Year	N	10 %	11 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	60.6	5.0	1.7	23.2	8.7	0.7	65.6	62.4	69.0
	2015	668	57.9	7.3	4.1	23.7	7.0	0.1	65.1	64.5	65.8
Korea, Rep. of	2011	618	52.4	34.8	2.7	9.5	0.3	0.1	87.3	87.5	87.1
	2015	664	51.1	41.3	2.0	5.6	0.0	0.0	92.4	92.2	92.6
Kuwait	2011	584	8.0	5.7	5.6	59.4	19.9	1.4	13.7	16.2	10.9
	2015	490	14.3	2.7	5.7	48.8	24.6	3.9	17.1	18.6	15.7
Lithuania	2011	663	52.1	20.6	5.9	15.4	5.8	0.3	72.7	74.8	70.7
	2015	649	51.6	19.9	6.3	16.7	5.2	0.4	71.5	76.0	66.9
Morocco	2011	1137	18.6	6.3	4.2	48.5	20.4	2.0	24.9	27.1	22.8
	2015	721	16.8	8.1	4.5	45.9	22.8	2.0	24.8	28.3	21.5
Netherlands	2011	465	61.0	8.7	2.8	24.4	3.2	0.0	69.7	72.4	66.8
	2015	651	58.1	8.2	2.5	27.8	2.6	0.8	66.3	67.8	64.6
New Zealand	2011	798	40.6	21.6	3.1	30.8	3.9	0.1	62.2	63.3	61.0
	2015	904	47.2	16.5	4.7	26.6	4.6	0.4	63.6	65.0	62.3
Northern Ireland	2011	516	38.3	24.8	7.2	24.8	4.9	0.0	63.1	65.0	61.2
	2015	452	41.2	24.3	4.1	29.6	0.8	0.0	65.5	69.4	61.9
Oman	2011	1497	21.1	15.5	5.7	48.1	8.3	1.3	36.7	38.3	35.1
	2015	1308	23.9	11.2	8.5	47.0	8.9	0.6	35.1	38.3	32.3
Portugal	2011	575	38.9	21.4	10.5	25.2	4.0	0.0	60.3	62.3	58.5
	2015	685	44.3	24.3	5.7	23.6	2.2	0.0	68.6	67.2	69.8
Qatar	2011	591	23.0	11.0	4.3	51.6	9.5	0.6	34.0	35.1	33.0
	2015	728	30.6	15.9	5.6	40.8	6.3	0.8	46.5	48.8	44.1
Russian Federation	2011	642	58.4	18.6	3.5	14.2	5.3	0.0	77.0	77.5	76.5
	2015	705	61.8	18.9	3.4	11.8	4.0	0.1	80.7	80.3	81.0
Saudi Arabia	2011	674	23.2	13.8	10.4	44.9	7.4	0.3	37.0	40.6	33.0
	2015	622	14.5	11.7	2.9	52.5	16.7	1.8	26.2	30.6	22.0
Serbia	2011	625	43.4	9.1	4.2	23.0	20.3	0.1	52.4	49.3	55.6
	2015	589	37.0	6.6	2.0	34.9	19.2	0.2	43.6	44.3	43.0
Singapore	2011	903	40.7	28.6	3.2	25.8	1.6	0.0	69.3	69.7	68.9
	2015	939	42.6	30.2	2.6	23.6	1.1	0.0	72.8	74.7	71.1
Slovak Republic	2011	795	53.6	9.7	5.4	23.3	7.7	0.4	63.2	60.8	65.9
	2015	818	44.4	15.4	3.1	26.0	11.0	0.1	59.8	57.1	62.2
Slovenia	2011	642	50.7	20.8	6.0	19.6	2.9	0.0	71.5	71.3	71.8
	2015	628	53.9	17.9	7.0	17.5	3.4	0.2	71.8	75.2	69.1
Spain	2011	585	41.4	13.8	6.5	30.7	7.4	0.2	55.2	49.6	60.3
	2015	1110	40.5	18.0	7.9	28.6	4.5	0.5	58.6	56.9	60.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_06C (M041302C): Geometric Shapes and Measures / Reasoning Type: CR 1 Point  
Label: Draw a 6-sided shape

COUNTRY	Year	N	10 %	11 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	53.9	14.9	2.1	21.7	7.1	0.3	68.9	65.5	71.5
	2015	588	56.8	18.0	2.5	18.3	3.3	1.2	74.8	80.1	69.4
Turkey	2011	1083	27.4	5.9	4.7	53.3	8.5	0.2	33.3	32.8	33.7
	2015	926	31.0	11.2	5.0	45.6	7.2	0.1	42.2	43.4	41.0
United Arab Emirates	2011	2070	24.5	11.6	5.8	47.1	10.1	0.9	36.1	38.7	33.4
	2015	3037	25.2	14.8	6.8	44.3	8.6	0.3	40.1	42.7	37.7
United States	2011	1800	37.2	28.8	6.5	25.3	1.8	0.3	66.0	64.4	67.7
	2015	1447	36.5	27.1	8.0	25.9	1.9	0.5	63.7	61.8	65.7
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International Avg (n=40)	2011	30387	42.6	17.5	4.8	27.7	7.0	0.4	60.1	60.1	60.1
	2015	30738	42.9	18.3	4.3	27.3	6.6	0.6	61.2	62.5	60.0
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Ontario, Canada	2011	640	43.9	25.8	4.8	23.7	1.5	0.2	69.7	73.0	66.4
	2015	653	33.9	30.5	7.5	26.5	1.1	0.5	64.4	62.8	66.2
Quebec, Canada	2011	616	51.6	18.8	4.3	21.5	3.9	0.0	70.3	68.0	72.9
	2015	403	46.3	23.2	9.5	19.5	1.4	0.0	69.6	67.1	71.5
Norway (4)	2011	439	58.7	10.3	2.5	24.7	3.3	0.5	69.0	69.8	68.3
	2015	597	50.3	13.1	3.4	28.4	3.6	1.2	63.4	64.1	62.7
Abu Dhabi, UAE	2011	588	20.6	9.7	5.9	54.4	8.5	0.8	30.3	34.6	26.0
	2015	714	22.4	11.2	6.3	48.7	11.1	0.3	33.6	37.8	29.7
Dubai, UAE	2011	868	33.8	16.9	5.0	33.5	9.9	0.8	50.7	55.1	46.8
	2015	1070	33.9	20.8	7.0	34.3	3.9	0.1	54.6	56.2	53.2
Florida, US	2011	364	29.4	24.9	6.8	36.8	1.8	0.3	54.3	52.9	55.8
	2015	288	34.4	28.9	7.2	27.8	1.3	0.4	63.3	63.0	63.5
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M01\_07 (M041254): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: How many edges does the cube have

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	64.0	16.8	9.8	8.3	64.0	0.8	0.4	63.1	64.9
	2015	875	73.2	14.5	7.0	3.7	73.2	1.0	0.6	71.9	74.8
Bahrain	2011	588	45.3	32.9	10.4	10.1	45.3	0.6	0.8	48.1	42.5
	2015	599	67.5	16.5	7.6	6.3	67.5	1.5	0.6	70.0	65.0
Belgium (Flemish)	2011	694	43.3	33.4	12.5	9.1	43.3	1.8	0.0	41.7	44.9
	2015	765	43.1	30.0	15.9	9.2	43.1	1.6	0.2	39.4	46.9
Chile	2011	802	67.8	13.4	5.9	9.4	67.8	2.0	1.4	66.0	69.4
	2015	674	71.4	11.4	5.7	6.7	71.4	2.0	2.9	75.2	68.2
Chinese Taipei	2011	616	81.3	6.7	7.3	4.4	81.3	0.2	0.2	81.7	80.9
	2015	614	77.7	10.3	6.0	5.6	77.7	0.4	0.0	75.6	79.6
Croatia	2011	659	54.5	20.4	12.1	8.3	54.5	4.7	0.0	54.3	54.7
	2015	570	45.0	25.8	13.7	11.7	45.0	3.7	0.1	42.4	47.1
Czech Republic	2011	661	41.4	37.8	13.0	5.1	41.4	2.6	0.0	42.1	40.7
	2015	749	48.8	30.7	10.4	6.6	48.8	3.1	0.3	47.5	50.1
Denmark	2011	567	35.3	38.3	10.8	7.6	35.3	7.2	0.8	34.7	35.8
	2015	531	42.4	35.6	9.8	5.1	42.4	5.3	1.8	39.7	45.0
England	2011	486	62.1	19.4	8.4	8.6	62.1	1.2	0.3	64.3	60.0
	2015	569	74.3	11.7	7.0	6.8	74.3	0.2	0.0	74.4	74.2
Finland	2011	648	49.5	29.4	10.7	8.8	49.5	1.4	0.1	51.1	47.9
	2015	717	48.5	28.1	11.7	9.1	48.5	2.4	0.2	47.1	49.8
Georgia	2011	690	56.7	26.5	8.6	6.1	56.7	0.7	1.5	58.6	54.9
	2015	553	63.2	21.7	5.0	7.0	63.2	2.2	0.9	63.7	62.8
Germany	2011	581	71.9	15.6	6.8	3.9	71.9	1.8	0.0	72.7	71.1
	2015	554	64.4	16.9	8.7	7.3	64.4	2.2	0.4	65.4	63.3
Hong Kong SAR	2011	566	78.1	5.7	4.2	11.0	78.1	1.0	0.0	77.1	79.0
	2015	517	79.4	5.4	5.4	8.8	79.4	1.0	0.0	79.4	79.4
Hungary	2011	743	63.5	22.3	7.8	5.0	63.5	1.0	0.4	64.2	62.8
	2015	715	68.9	14.3	8.4	7.2	68.9	0.9	0.3	66.3	71.6
Iran, Islamic Rep. of	2011	816	29.7	40.7	16.3	8.1	29.7	3.8	1.5	31.2	28.1
	2015	542	22.5	46.4	18.1	6.0	22.5	3.9	3.1	24.8	20.0
Ireland	2011	643	61.9	20.9	11.2	5.4	61.9	0.6	0.1	65.8	57.8
	2015	626	72.8	14.8	6.7	4.9	72.8	0.4	0.4	71.1	74.4
Italy	2011	600	29.5	51.2	10.2	4.7	29.5	4.1	0.2	30.0	29.1
	2015	624	27.6	52.7	10.6	5.3	27.6	3.2	0.5	23.3	31.8
Japan	2011	628	91.5	3.4	2.6	2.1	91.5	0.3	0.1	91.5	91.5
	2015	621	91.2	3.2	3.0	2.6	91.2	0.0	0.0	93.2	89.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_07 (M041254): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: How many edges does the cube have

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	52.2	29.5	7.8	9.1	52.2	0.6	0.7	50.2	54.3
	2015	668	66.5	19.8	7.1	6.1	66.5	0.4	0.1	65.2	67.7
Korea, Rep. of	2011	618	52.8	16.0	19.1	10.5	52.8	1.5	0.1	51.2	54.4
	2015	664	56.4	17.5	15.1	11.0	56.4	0.0	0.0	51.5	61.0
Kuwait	2011	582	24.0	39.2	18.7	10.7	24.0	5.8	1.6	24.5	23.4
	2015	489	29.5	38.6	13.9	7.7	29.5	5.6	4.7	33.3	26.2
Lithuania	2011	663	77.4	10.6	4.0	7.5	77.4	0.3	0.3	75.3	79.3
	2015	649	83.9	6.2	4.2	4.9	83.9	0.4	0.4	85.2	82.6
Morocco	2011	1089	44.1	26.9	12.7	11.4	44.1	2.8	2.1	42.6	45.5
	2015	728	49.2	28.2	11.9	7.0	49.2	1.4	2.3	47.9	50.4
Netherlands	2011	465	36.5	38.1	16.7	7.0	36.5	1.7	0.0	35.4	37.7
	2015	651	44.7	29.7	13.3	8.8	44.7	2.6	0.8	42.8	46.8
New Zealand	2011	798	48.3	29.7	11.5	9.5	48.3	0.8	0.2	46.0	50.6
	2015	904	52.4	27.5	10.7	7.4	52.4	1.5	0.6	53.6	51.1
Northern Ireland	2011	516	72.2	13.6	8.2	5.3	72.2	0.6	0.0	76.7	67.7
	2015	449	80.6	12.8	3.6	3.0	80.6	0.0	0.0	79.7	81.4
Oman	2011	1497	43.1	32.1	11.9	9.0	43.1	2.5	1.5	44.8	41.4
	2015	1307	49.2	26.7	13.2	9.1	49.2	1.1	0.6	54.6	44.7
Portugal	2011	575	90.6	3.9	2.5	2.5	90.6	0.4	0.0	91.5	89.8
	2015	685	82.6	7.0	5.5	4.7	82.6	0.3	0.0	81.5	83.6
Qatar	2011	591	42.1	33.9	13.4	7.8	42.1	2.0	0.8	49.4	35.9
	2015	728	43.3	33.9	11.0	8.8	43.3	1.8	1.2	44.8	41.8
Russian Federation	2011	642	55.8	24.6	10.7	8.2	55.8	0.7	0.0	56.5	55.1
	2015	705	63.8	19.1	9.5	6.1	63.8	1.4	0.1	63.1	64.5
Saudi Arabia	2011	674	42.2	29.9	16.2	10.1	42.2	1.1	0.5	43.2	41.1
	2015	621	54.0	29.4	8.7	5.2	54.0	0.3	2.4	60.5	47.7
Serbia	2011	625	85.9	9.4	3.1	1.3	85.9	0.2	0.1	86.3	85.6
	2015	589	80.0	13.6	3.4	1.6	80.0	1.2	0.2	82.7	77.5
Singapore	2011	903	43.5	34.7	15.3	6.2	43.5	0.4	0.0	41.2	45.7
	2015	939	44.1	37.1	12.0	6.2	44.1	0.7	0.0	41.4	46.4
Slovak Republic	2011	795	41.1	36.5	14.8	6.5	41.1	0.7	0.4	41.9	40.2
	2015	818	38.0	42.3	9.3	7.4	38.0	2.8	0.2	36.1	39.7
Slovenia	2011	642	71.4	14.1	6.6	6.7	71.4	1.1	0.0	71.3	71.6
	2015	628	74.4	12.7	6.1	5.2	74.4	1.4	0.2	75.1	73.8
Spain	2011	585	42.9	32.9	12.7	8.6	42.9	2.6	0.2	41.9	43.8
	2015	1110	49.7	26.8	10.5	10.9	49.7	1.5	0.6	47.7	51.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_07 (M041254): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: How many edges does the cube have

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	35.2	38.7	15.8	6.6	35.2	3.4	0.3	30.9	38.6
	2015	588	47.2	30.4	13.6	5.2	47.2	2.4	1.2	46.3	48.0
Turkey	2011	1083	45.8	35.4	9.9	6.6	45.8	2.0	0.3	45.7	45.9
	2015	926	52.4	28.5	11.0	7.0	52.4	1.1	0.1	54.0	50.9
United Arab Emirates	2011	2070	41.3	33.6	13.4	9.0	41.3	1.7	1.0	45.7	36.8
	2015	3037	48.9	27.9	13.3	7.1	48.9	2.5	0.3	48.8	48.9
United States	2011	1800	61.1	20.2	9.1	7.8	61.1	1.5	0.3	61.4	60.8
	2015	1447	52.3	26.8	12.2	6.3	52.3	1.8	0.5	50.2	54.6
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International Avg (n=40)	2011	30337	54.4	25.5	10.6	7.4	54.4	1.7	0.5	54.8	54.0
	2015	30745	58.1	23.3	9.5	6.7	58.1	1.7	0.7	57.9	58.4
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Ontario, Canada	2011	640	64.1	17.6	8.6	8.1	64.1	1.2	0.4	64.2	64.1
	2015	652	68.9	16.2	7.5	5.9	68.9	0.9	0.5	69.4	68.4
Quebec, Canada	2011	616	80.5	7.2	5.1	6.1	80.5	0.9	0.3	81.9	78.8
	2015	402	83.6	6.1	4.8	4.9	83.6	0.6	0.0	83.7	83.6
Norway (4)	2011	439	39.5	42.8	11.0	3.9	39.5	2.1	0.7	40.4	38.6
	2015	597	39.7	37.1	14.1	5.5	39.7	2.1	1.5	40.3	39.1
Abu Dhabi, UAE	2011	588	42.9	33.1	11.7	10.5	42.9	0.8	1.0	47.0	38.8
	2015	714	45.1	26.9	16.8	8.8	45.1	2.1	0.4	45.5	44.7
Dubai, UAE	2011	868	40.5	32.4	14.8	8.7	40.5	2.6	0.9	43.5	37.9
	2015	1070	61.0	22.0	10.2	4.8	61.0	1.8	0.2	59.4	62.4
Florida, US	2011	364	50.0	27.8	12.9	8.2	50.0	0.9	0.3	47.2	53.1
	2015	288	48.6	29.3	12.8	6.0	48.6	2.6	0.6	51.1	46.5
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_08 (M041153): Geometric Shapes and Measures / Applying Type: MC Key: C  
Label: Perimeter of the compound figure

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	60.0	11.0	20.6	60.0	7.2	0.8	0.5	60.8	59.2
	2015	875	64.4	10.2	16.0	64.4	7.7	1.3	0.6	64.3	64.4
Bahrain	2011	588	28.3	33.4	27.3	28.3	8.7	1.4	0.8	25.5	31.1
	2015	598	30.2	35.0	25.9	30.2	6.7	1.4	0.7	27.3	33.0
Belgium (Flemish)	2011	694	63.3	7.0	20.1	63.3	8.2	1.2	0.1	63.1	63.6
	2015	765	64.0	8.5	18.9	64.0	6.7	1.8	0.2	60.2	67.9
Chile	2011	802	32.3	28.5	23.1	32.3	10.5	3.9	1.8	28.6	35.5
	2015	674	36.9	25.0	22.9	36.9	8.7	3.4	3.1	32.8	40.3
Chinese Taipei	2011	616	81.4	4.1	8.0	81.4	6.2	0.2	0.2	82.9	80.1
	2015	614	74.5	4.3	8.1	74.5	12.8	0.3	0.0	77.3	72.0
Croatia	2011	659	34.1	21.5	14.5	34.1	23.2	6.5	0.1	30.2	37.8
	2015	570	36.4	26.3	20.3	36.4	12.3	4.6	0.1	33.4	38.8
Czech Republic	2011	661	48.9	14.7	14.8	48.9	18.0	3.4	0.0	49.2	48.7
	2015	749	54.6	12.5	18.3	54.6	9.8	4.4	0.3	55.1	54.1
Denmark	2011	567	72.6	6.7	14.8	72.6	2.0	2.5	1.4	72.2	72.9
	2015	531	78.4	5.5	10.3	78.4	1.8	2.2	1.8	74.6	82.2
England	2011	486	60.0	8.1	21.9	60.0	6.4	3.3	0.3	51.6	68.3
	2015	569	67.8	7.3	16.6	67.8	6.3	2.1	0.0	63.4	72.9
Finland	2011	648	69.5	7.2	18.2	69.5	3.5	1.5	0.1	68.2	70.8
	2015	717	68.7	7.2	16.5	68.7	4.3	3.1	0.2	72.6	65.0
Georgia	2011	690	33.2	17.9	18.9	33.2	21.9	6.6	1.5	28.2	37.6
	2015	553	36.2	14.3	21.3	36.2	22.8	3.8	1.6	32.4	39.5
Germany	2011	581	61.4	7.1	22.8	61.4	5.5	3.0	0.2	59.6	63.2
	2015	554	55.5	9.8	25.0	55.5	4.2	5.1	0.4	55.9	55.0
Hong Kong SAR	2011	566	82.2	1.4	5.4	82.2	9.4	1.6	0.0	81.8	82.6
	2015	517	83.7	1.0	5.0	83.7	9.0	1.2	0.0	86.1	81.7
Hungary	2011	743	56.7	13.6	18.2	56.7	9.0	1.7	0.9	56.4	56.9
	2015	715	58.2	14.0	19.7	58.2	6.1	1.7	0.3	56.5	60.0
Iran, Islamic Rep. of	2011	816	25.5	31.7	15.9	25.5	19.2	5.6	2.1	21.5	29.6
	2015	542	23.5	39.1	17.7	23.5	12.2	4.2	3.4	21.8	25.2
Ireland	2011	643	51.9	13.8	21.3	51.9	11.0	1.7	0.2	51.8	52.1
	2015	626	61.4	9.0	18.3	61.4	10.2	0.7	0.4	57.6	65.1
Italy	2011	600	57.9	16.9	16.4	57.9	5.7	2.9	0.2	57.4	58.4
	2015	624	61.1	10.9	17.9	61.1	6.4	3.2	0.5	59.0	63.2
Japan	2011	628	69.8	6.0	18.9	69.8	4.0	1.1	0.1	71.9	67.8
	2015	621	76.5	4.6	14.4	76.5	4.3	0.3	0.0	77.4	75.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_08 (M041153): Geometric Shapes and Measures / Applying Type: MC Key: C  
Label: Perimeter of the compound figure

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	35.4	17.0	16.4	35.4	28.3	2.2	0.7	34.1	36.7
	2015	668	53.6	9.7	9.9	53.6	25.8	1.0	0.1	50.9	56.1
Korea, Rep. of	2011	618	84.4	2.9	6.2	84.4	5.3	1.0	0.1	85.6	83.3
	2015	664	84.2	1.7	8.0	84.2	5.8	0.3	0.0	83.7	84.7
Kuwait	2011	580	23.1	36.0	28.6	23.1	5.4	5.1	1.8	22.2	24.1
	2015	490	16.3	36.9	29.4	16.3	4.6	7.9	5.0	15.2	17.7
Lithuania	2011	663	57.7	9.7	14.6	57.7	16.2	1.6	0.3	60.3	55.3
	2015	649	60.7	5.5	16.0	60.7	13.9	3.4	0.4	60.0	61.5
Morocco	2011	1073	26.0	35.9	21.4	26.0	11.3	2.6	2.8	24.3	27.4
	2015	728	22.3	42.5	21.3	22.3	7.5	4.1	2.3	19.2	25.3
Netherlands	2011	465	71.9	4.4	17.1	71.9	6.2	0.4	0.0	73.2	70.6
	2015	651	80.4	2.1	12.2	80.4	3.4	0.9	1.0	77.3	83.6
New Zealand	2011	798	40.6	19.0	29.9	40.6	7.8	2.2	0.6	37.2	44.0
	2015	904	47.9	15.2	28.3	47.9	5.6	2.3	0.7	47.0	48.9
Northern Ireland	2011	516	57.9	13.2	17.8	57.9	9.5	1.5	0.1	55.9	60.0
	2015	448	72.8	6.2	14.1	72.8	6.4	0.5	0.0	76.4	69.5
Oman	2011	1497	20.9	43.6	22.4	20.9	7.5	3.8	1.8	17.6	24.2
	2015	1306	31.3	37.0	21.2	31.3	7.2	2.7	0.6	32.0	30.7
Portugal	2011	575	79.1	5.4	10.8	79.1	3.0	1.7	0.0	82.7	75.9
	2015	685	76.8	5.3	12.1	76.8	4.2	1.6	0.0	73.6	79.8
Qatar	2011	591	29.3	32.8	25.9	29.3	9.0	1.9	1.1	28.3	30.2
	2015	728	34.3	29.2	25.6	34.3	5.7	3.2	2.0	33.5	35.1
Russian Federation	2011	642	45.9	14.0	15.4	45.9	21.1	3.5	0.0	46.7	45.2
	2015	705	51.1	10.8	15.9	51.1	19.8	2.4	0.1	47.7	54.2
Saudi Arabia	2011	674	27.1	31.6	30.2	27.1	9.0	1.2	0.9	23.2	31.4
	2015	620	23.6	36.6	26.0	23.6	10.0	1.3	2.5	22.8	24.3
Serbia	2011	625	43.1	16.2	9.3	43.1	24.4	6.8	0.1	41.5	44.8
	2015	589	44.2	16.6	12.6	44.2	21.8	4.6	0.2	41.5	46.7
Singapore	2011	903	86.0	2.0	4.6	86.0	7.0	0.4	0.0	85.5	86.6
	2015	939	88.2	1.5	5.5	88.2	4.3	0.4	0.0	90.5	86.2
Slovak Republic	2011	795	51.3	18.1	19.7	51.3	9.7	0.8	0.4	48.7	54.0
	2015	818	50.0	13.3	25.2	50.0	8.6	2.6	0.3	45.2	54.2
Slovenia	2011	642	48.6	16.0	23.6	48.6	6.3	5.5	0.0	44.8	52.4
	2015	628	47.6	14.6	25.7	47.6	6.1	5.7	0.2	47.6	47.7
Spain	2011	585	34.7	22.0	29.0	34.7	8.0	5.6	0.7	36.1	33.4
	2015	1110	40.2	15.6	32.1	40.2	6.9	4.4	1.0	37.0	43.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_08 (M041153): Geometric Shapes and Measures / Applying Type: MC Key: C  
Label: Perimeter of the compound figure

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	67.5	5.7	15.8	67.5	7.2	3.5	0.3	67.6	67.4
	2015	588	66.1	6.3	14.6	66.1	5.6	5.8	1.5	68.8	63.4
Turkey	2011	1083	48.1	16.6	16.2	48.1	17.4	1.5	0.3	42.8	52.8
	2015	926	51.8	16.1	17.5	51.8	13.0	1.5	0.1	50.3	53.3
United Arab Emirates	2011	2070	32.4	30.8	24.5	32.4	8.3	2.6	1.2	29.7	35.3
	2015	3037	36.8	27.1	25.5	36.8	7.3	2.6	0.6	34.7	38.7
United States	2011	1800	59.4	13.9	18.6	59.4	6.3	1.4	0.4	54.7	64.4
	2015	1447	56.8	14.4	20.6	56.8	5.8	1.8	0.6	53.6	60.4
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International Avg (n=40)	2011	30319	51.5	16.4	18.5	51.5	10.4	2.6	0.6	50.1	52.9
	2015	30742	54.2	15.2	18.3	54.2	8.8	2.6	0.8	52.9	55.5
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Ontario, Canada	2011	640	69.6	7.0	15.9	69.6	5.6	1.5	0.4	68.0	71.3
	2015	653	72.7	8.8	12.0	72.7	4.3	1.3	0.9	72.9	72.7
Quebec, Canada	2011	616	70.5	7.2	15.7	70.5	4.8	1.4	0.3	68.6	72.6
	2015	403	79.9	4.8	11.4	79.9	3.1	0.7	0.0	81.1	79.0
Norway (4)	2011	439	58.0	14.8	19.9	58.0	4.2	2.3	0.7	55.4	60.5
	2015	597	56.4	15.9	19.5	56.4	3.4	3.3	1.6	54.8	58.1
Abu Dhabi, UAE	2011	588	30.4	34.6	23.6	30.4	8.4	1.9	1.0	26.0	34.8
	2015	714	29.8	30.8	27.1	29.8	8.1	3.4	0.8	28.5	31.0
Dubai, UAE	2011	868	36.9	23.6	25.0	36.9	9.7	3.4	1.3	38.2	35.8
	2015	1070	50.8	20.0	19.5	50.8	7.4	1.5	0.7	47.8	53.4
Florida, US	2011	364	53.1	17.6	19.4	53.1	8.5	1.1	0.3	53.8	52.3
	2015	288	57.1	14.1	18.4	57.1	6.1	3.6	0.6	59.2	55.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_09 (M041132): Geometric Shapes and Measures / Applying Type: MC Key: B  
Label: How many tiles long the snake is

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	44.0	4.1	44.0	25.8	24.5	0.9	0.6	47.8	40.5
	2015	875	44.5	2.2	44.5	27.4	23.9	1.4	0.6	43.4	45.8
Bahrain	2011	587	30.2	7.0	30.2	22.1	38.6	1.0	1.0	29.2	31.2
	2015	598	24.7	7.4	24.7	20.8	45.3	1.1	0.7	27.1	22.3
Belgium (Flemish)	2011	694	44.0	4.0	44.0	28.3	22.9	0.6	0.1	46.9	41.2
	2015	765	42.7	3.0	42.7	26.7	26.7	0.6	0.3	39.7	45.8
Chile	2011	802	38.8	4.6	38.8	23.8	29.2	1.5	2.1	41.6	36.4
	2015	674	34.9	5.9	34.9	20.0	34.2	1.4	3.6	33.1	36.4
Chinese Taipei	2011	616	48.3	4.5	48.3	22.5	24.5	0.0	0.2	46.9	49.5
	2015	614	44.5	5.2	44.5	24.2	26.1	0.0	0.0	40.7	47.9
Croatia	2011	659	37.0	3.8	37.0	25.6	32.2	1.2	0.1	35.4	38.5
	2015	570	37.1	3.7	37.1	24.1	33.7	1.0	0.5	36.7	37.3
Czech Republic	2011	661	41.2	4.0	41.2	21.9	31.8	1.0	0.0	38.9	43.5
	2015	749	48.4	2.7	48.4	22.7	24.7	1.2	0.3	45.6	51.0
Denmark	2011	567	48.4	4.1	48.4	24.7	19.6	1.7	1.4	45.9	50.9
	2015	531	52.2	4.7	52.2	22.3	17.4	1.6	1.8	53.3	51.1
England	2011	486	48.7	4.6	48.7	26.5	18.9	1.0	0.3	47.7	49.6
	2015	569	49.6	4.3	49.6	22.4	22.8	0.6	0.2	47.1	52.6
Finland	2011	648	59.0	3.4	59.0	22.4	14.5	0.6	0.1	54.9	63.1
	2015	717	53.5	2.6	53.5	24.8	13.3	5.5	0.2	51.8	55.2
Georgia	2011	689	46.5	6.3	46.5	21.1	22.3	1.5	2.3	45.1	47.7
	2015	553	39.5	8.5	39.5	21.1	25.1	3.8	1.9	31.2	46.8
Germany	2011	581	48.8	4.3	48.8	27.8	18.1	0.7	0.2	48.6	49.1
	2015	554	48.2	3.1	48.2	24.4	23.0	0.8	0.6	44.9	51.8
Hong Kong SAR	2011	566	50.9	7.6	50.9	23.1	17.6	0.7	0.0	49.5	52.1
	2015	517	52.1	5.8	52.1	23.1	17.6	1.4	0.0	49.8	54.1
Hungary	2011	743	49.8	3.8	49.8	24.2	20.5	0.8	0.9	45.1	54.0
	2015	715	46.8	2.0	46.8	26.1	24.2	0.7	0.3	46.7	46.9
Iran, Islamic Rep. of	2011	816	41.7	7.4	41.7	21.9	24.7	1.6	2.7	41.3	42.0
	2015	542	35.6	3.5	35.6	26.9	27.9	2.1	4.0	37.1	34.1
Ireland	2011	643	42.1	4.6	42.1	25.8	26.3	1.0	0.2	38.2	46.2
	2015	626	42.1	3.3	42.1	24.4	29.4	0.3	0.4	36.4	47.6
Italy	2011	600	47.8	5.7	47.8	18.0	27.0	1.3	0.2	44.5	51.2
	2015	624	43.9	5.6	43.9	21.4	26.8	1.8	0.5	45.5	42.4
Japan	2011	628	57.6	5.0	57.6	21.8	14.9	0.6	0.1	56.7	58.5
	2015	621	57.9	4.7	57.9	23.7	13.6	0.0	0.0	61.2	54.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_09 (M041132): Geometric Shapes and Measures / Applying Type: MC Key: B  
Label: How many tiles long the snake is

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	48.1	5.9	48.1	19.6	25.3	0.3	0.8	44.3	52.0
	2015	668	57.2	3.8	57.2	19.1	19.5	0.3	0.1	55.3	58.9
Korea, Rep. of	2011	618	48.7	3.4	48.7	25.5	20.8	1.4	0.1	43.5	53.9
	2015	664	52.5	2.9	52.5	24.7	19.4	0.5	0.0	49.4	55.4
Kuwait	2011	583	17.7	9.4	17.7	23.2	41.6	6.0	2.0	15.7	19.9
	2015	490	22.8	7.1	22.8	20.7	39.7	4.1	5.6	22.4	23.5
Lithuania	2011	663	53.2	3.1	53.2	24.5	18.4	0.4	0.3	55.0	51.6
	2015	649	43.7	4.8	43.7	29.8	20.3	1.0	0.4	44.5	42.9
Morocco	2011	1085	26.8	7.1	26.8	22.8	38.1	2.3	3.0	27.0	26.6
	2015	730	32.8	6.8	32.8	22.2	32.4	3.4	2.5	32.9	32.6
Netherlands	2011	465	46.3	1.9	46.3	32.4	19.1	0.3	0.0	46.9	45.5
	2015	651	39.9	4.2	39.9	32.1	21.7	1.1	1.0	36.6	43.4
New Zealand	2011	798	46.0	3.5	46.0	22.8	26.0	1.1	0.6	45.7	46.3
	2015	904	43.2	2.8	43.2	26.1	26.3	0.6	1.1	41.2	45.2
Northern Ireland	2011	516	45.0	4.1	45.0	31.1	18.6	1.1	0.1	41.9	48.1
	2015	450	49.6	2.8	49.6	25.4	22.3	0.0	0.0	48.3	50.7
Oman	2011	1497	26.0	7.1	26.0	21.5	41.1	2.3	2.1	25.5	26.4
	2015	1303	32.2	5.3	32.2	20.1	39.2	2.5	0.8	30.5	33.6
Portugal	2011	575	44.6	3.4	44.6	30.1	21.2	0.8	0.0	43.2	45.8
	2015	685	44.7	2.8	44.7	20.9	30.7	0.5	0.3	39.5	49.6
Qatar	2011	591	30.1	9.2	30.1	22.0	36.7	0.7	1.2	27.5	32.4
	2015	728	31.4	8.9	31.4	24.1	31.9	1.5	2.2	29.7	33.0
Russian Federation	2011	642	55.5	3.2	55.5	20.7	19.2	0.8	0.5	54.9	56.1
	2015	705	50.7	2.5	50.7	24.5	21.7	0.3	0.1	44.8	56.2
Saudi Arabia	2011	674	27.0	4.9	27.0	22.8	43.2	1.2	1.0	21.9	32.8
	2015	617	26.5	5.6	26.5	24.5	39.8	0.7	2.8	26.7	26.2
Serbia	2011	625	53.1	2.4	53.1	24.3	18.4	1.4	0.4	48.3	57.9
	2015	589	43.4	3.5	43.4	26.9	23.8	2.2	0.2	41.3	45.2
Singapore	2011	903	49.0	5.8	49.0	24.8	20.3	0.2	0.0	48.2	49.8
	2015	939	46.6	5.4	46.6	23.5	24.3	0.2	0.0	43.3	49.5
Slovak Republic	2011	795	51.6	3.3	51.6	21.6	22.3	0.8	0.4	47.7	55.9
	2015	818	40.0	3.6	40.0	24.1	31.1	0.8	0.3	37.8	41.9
Slovenia	2011	641	51.6	4.5	51.6	21.7	20.9	0.6	0.6	46.2	57.0
	2015	628	49.6	3.7	49.6	23.2	21.2	1.8	0.5	49.3	49.8
Spain	2011	585	38.8	3.8	38.8	26.5	28.5	1.3	1.1	40.2	37.5
	2015	1110	44.1	2.7	44.1	27.3	23.4	0.9	1.6	42.9	45.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M01\_09 (M041132): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: How many tiles long the snake is

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	47.4	5.4	47.4	28.2	18.2	0.4	0.4	44.9	49.3
	2015	588	49.6	4.8	49.6	27.4	12.9	3.0	2.3	51.5	47.6
Turkey	2011	1083	45.6	6.8	45.6	24.0	23.0	0.3	0.3	47.7	43.8
	2015	926	47.7	5.4	47.7	22.0	24.4	0.4	0.1	47.5	48.0
United Arab Emirates	2011	2070	30.3	5.8	30.3	22.2	38.6	1.5	1.5	32.2	28.4
	2015	3037	31.8	5.8	31.8	23.4	34.9	3.3	0.8	29.8	33.6
United States	2011	1800	49.7	4.2	49.7	23.6	21.4	0.7	0.5	46.8	52.8
	2015	1447	45.8	5.1	45.8	25.7	21.2	1.5	0.6	43.6	48.3
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International Avg (n=40)	2011	30331	43.9	4.9	43.9	24.1	25.2	1.1	0.7	42.5	45.4
	2015	30740	43.1	4.5	43.1	24.1	25.9	1.4	1.0	41.5	44.6
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Ontario, Canada	2011	640	47.5	5.1	47.5	25.0	20.5	1.4	0.6	45.0	50.0
	2015	652	42.3	4.6	42.3	26.7	24.7	0.6	1.0	39.2	45.2
Quebec, Canada	2011	616	39.4	5.8	39.4	27.6	24.6	2.2	0.3	34.9	44.6
	2015	403	38.4	2.7	38.4	29.6	28.9	0.4	0.0	32.2	43.3
Norway (4)	2011	439	42.6	6.2	42.6	23.8	25.9	0.8	0.7	42.0	43.1
	2015	597	43.5	7.3	43.5	24.0	20.4	2.5	2.3	43.7	43.2
Abu Dhabi, UAE	2011	588	30.0	5.2	30.0	20.9	41.4	1.0	1.6	34.2	25.8
	2015	714	26.9	4.3	26.9	25.6	38.3	4.1	0.9	28.4	25.5
Dubai, UAE	2011	868	32.2	5.5	32.2	24.3	34.1	2.6	1.3	29.9	34.2
	2015	1070	38.4	4.2	38.4	25.5	28.9	2.3	0.7	36.0	40.5
Florida, US	2011	364	54.8	6.7	54.8	20.3	17.0	0.8	0.5	53.1	56.6
	2015	288	45.5	2.8	45.5	23.1	25.0	2.6	1.0	46.8	44.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M01\_10 (M041165): Geometric Shapes and Measures / Applying Type: CR 2 Points  
Label: Draw all the lines of symmetry

COUNTRY	Year	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	45.1	16.3	31.9	6.0	0.6	61.4	45.1	46.5	43.8
	2015	875	47.1	16.6	32.8	2.8	0.7	63.6	47.1	45.0	49.5
Bahrain	2011	588	17.1	21.7	42.8	17.3	1.2	38.7	17.1	17.2	16.9
	2015	597	21.3	27.1	40.0	10.9	0.7	48.4	21.3	23.3	19.3
Belgium (Flemish)	2011	694	41.7	19.1	33.2	5.8	0.1	60.8	41.7	35.4	48.1
	2015	765	48.5	20.2	23.1	7.8	0.4	68.7	48.5	48.9	47.9
Chile	2011	802	22.1	17.3	37.6	20.7	2.3	39.4	22.1	24.4	20.0
	2015	674	26.2	18.4	30.9	20.3	4.2	44.6	26.2	23.8	28.3
Chinese Taipei	2011	616	13.6	15.2	56.0	15.0	0.2	28.8	13.6	12.7	14.4
	2015	614	15.3	11.1	57.8	15.8	0.0	26.4	15.3	15.4	15.2
Croatia	2011	659	4.5	3.8	37.6	53.8	0.2	8.3	4.5	3.1	5.8
	2015	570	3.3	7.2	47.8	41.2	0.5	10.5	3.3	3.5	3.2
Czech Republic	2011	661	20.4	20.1	29.4	30.1	0.0	40.5	20.4	20.0	20.8
	2015	749	25.1	20.6	30.2	23.9	0.3	45.6	25.1	23.9	26.1
Denmark	2011	567	42.6	17.2	25.3	13.5	1.4	59.8	42.6	43.1	42.0
	2015	531	41.8	17.4	28.7	10.0	2.1	59.2	41.8	46.7	36.8
England	2011	486	68.6	15.4	11.1	4.5	0.4	84.1	68.6	64.2	73.0
	2015	569	68.4	14.9	13.1	3.4	0.2	83.3	68.4	70.4	66.1
Finland	2011	648	26.5	12.5	37.7	23.2	0.1	39.0	26.5	26.6	26.3
	2015	717	18.9	11.8	43.6	25.4	0.3	30.7	18.9	19.0	18.8
Georgia	2011	686	8.8	22.4	31.5	34.8	2.5	31.2	8.8	7.1	10.3
	2015	553	8.2	15.8	44.0	29.5	2.4	24.1	8.2	9.2	7.4
Germany	2011	581	46.6	14.1	20.4	18.7	0.2	60.7	46.6	52.2	40.9
	2015	554	36.1	20.7	24.4	18.2	0.6	56.7	36.1	38.7	33.1
Hong Kong SAR	2011	566	82.4	9.3	6.6	1.7	0.0	91.6	82.4	84.8	80.2
	2015	517	81.4	11.1	6.7	0.8	0.0	92.5	81.4	83.9	79.1
Hungary	2011	742	40.7	17.2	26.9	13.9	1.3	57.9	40.7	39.2	42.0
	2015	715	44.4	17.6	25.3	12.5	0.3	62.0	44.4	45.5	43.2
Iran, Islamic Rep. of	2011	816	25.4	40.3	17.0	14.2	3.1	65.7	25.4	26.2	24.6
	2015	542	17.3	31.7	29.5	17.1	4.4	49.0	17.3	18.3	16.2
Ireland	2011	643	38.5	28.6	27.1	5.6	0.2	67.1	38.5	41.1	35.8
	2015	626	57.8	22.3	16.4	3.0	0.5	80.1	57.8	56.1	59.4
Italy	2011	600	29.0	33.9	17.4	19.5	0.2	62.9	29.0	27.3	30.6
	2015	624	33.2	33.9	16.0	16.5	0.5	67.1	33.2	31.6	34.7
Japan	2011	628	21.8	17.9	51.4	8.8	0.1	39.7	21.8	23.4	20.3
	2015	621	21.5	15.9	52.5	10.1	0.0	37.4	21.5	24.5	18.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_10 (M041165): Geometric Shapes and Measures / Applying Type: CR 2 Points  
Label: Draw all the lines of symmetry

COUNTRY	Year	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	621	49.3	18.8	19.2	11.9	0.8	68.1	49.3	48.4	50.4
	2015	668	29.5	32.7	28.1	9.7	0.1	62.1	29.5	25.9	32.8
Korea, Rep. of	2011	618	20.9	20.3	55.3	3.4	0.1	41.2	20.9	18.9	22.8
	2015	664	21.4	22.7	51.6	4.3	0.0	44.1	21.4	25.4	17.6
Kuwait	2011	585	9.6	25.9	30.3	31.9	2.4	35.5	9.6	9.5	9.7
	2015	490	11.1	16.6	28.3	38.3	5.7	27.7	11.1	14.6	7.7
Lithuania	2011	663	42.3	21.4	25.9	10.0	0.3	63.8	42.3	44.0	40.8
	2015	649	37.7	23.8	25.6	12.5	0.4	61.5	37.7	42.1	33.2
Morocco	2011	1131	7.6	39.0	23.2	26.1	4.1	46.6	7.6	8.5	6.9
	2015	729	8.8	25.6	52.1	10.8	2.7	34.5	8.8	7.4	10.2
Netherlands	2011	465	6.1	5.9	73.3	14.7	0.0	12.0	6.1	7.0	5.1
	2015	651	12.5	5.9	61.0	19.6	1.0	18.4	12.5	8.9	16.2
New Zealand	2011	798	22.8	20.1	45.7	10.8	0.6	42.9	22.8	23.6	22.0
	2015	904	29.9	16.4	42.8	9.8	1.1	46.3	29.9	29.0	30.8
Northern Ireland	2011	516	72.2	16.4	8.3	2.9	0.1	88.6	72.2	74.8	69.6
	2015	452	67.8	22.1	7.6	2.5	0.0	89.9	67.8	71.6	64.3
Oman	2011	1497	14.2	22.6	35.4	24.7	3.0	36.8	14.2	13.5	14.9
	2015	1308	40.5	28.6	16.9	12.8	1.1	69.1	40.5	40.4	40.7
Portugal	2011	575	35.3	26.1	29.4	9.1	0.0	61.4	35.3	37.7	33.1
	2015	685	45.0	19.2	23.0	12.3	0.6	64.2	45.0	48.8	41.5
Qatar	2011	591	14.0	19.1	43.3	22.4	1.2	33.1	14.0	17.0	11.5
	2015	728	21.0	20.2	40.1	16.0	2.7	41.3	21.0	23.2	18.8
Russian Federation	2011	642	30.9	28.0	28.9	11.2	0.9	58.9	30.9	32.4	29.5
	2015	705	38.5	25.6	26.8	8.9	0.1	64.2	38.5	37.2	39.8
Saudi Arabia	2011	674	16.8	19.8	44.4	17.8	1.3	36.6	16.8	19.3	14.0
	2015	622	5.4	17.7	41.8	32.3	2.8	23.1	5.4	5.2	5.6
Serbia	2011	625	17.2	14.2	29.7	38.5	0.4	31.4	17.2	16.9	17.5
	2015	589	19.6	25.0	24.8	30.0	0.5	44.7	19.6	16.1	22.8
Singapore	2011	903	79.7	12.0	7.0	1.3	0.0	91.6	79.7	80.0	79.4
	2015	939	77.5	11.9	9.4	1.1	0.0	89.4	77.5	80.2	75.2
Slovak Republic	2011	795	15.9	17.7	35.5	30.5	0.4	33.6	15.9	16.6	15.1
	2015	818	12.5	12.8	35.7	38.7	0.3	25.3	12.5	13.0	12.1
Slovenia	2011	642	56.8	14.6	17.8	10.2	0.6	71.4	56.8	59.1	54.5
	2015	628	59.3	14.7	17.8	7.2	0.9	74.0	59.3	64.3	55.4
Spain	2011	585	12.1	19.2	40.8	26.6	1.2	31.3	12.1	12.2	12.0
	2015	1110	25.5	24.6	33.6	14.4	1.9	50.1	25.5	27.6	23.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_10 (M041165): Geometric Shapes and Measures / Applying Type: CR 2 Points  
Label: Draw all the lines of symmetry

COUNTRY	Year	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	7.3	9.8	45.9	36.6	0.4	17.1	7.3	6.9	7.7
	2015	588	26.1	10.3	40.2	21.0	2.4	36.5	26.1	33.6	18.8
Turkey	2011	1083	28.6	23.7	33.7	13.8	0.3	52.2	28.6	28.6	28.6
	2015	926	41.4	30.5	21.2	6.7	0.2	71.8	41.4	40.6	42.1
United Arab Emirates	2011	2070	20.7	20.8	33.0	23.8	1.6	41.5	20.7	22.6	18.7
	2015	3037	31.0	24.5	26.2	17.3	1.0	55.5	31.0	32.0	30.1
United States	2011	1800	54.0	18.2	24.5	2.8	0.5	72.2	54.0	52.8	55.2
	2015	1447	52.3	18.1	25.3	3.6	0.8	70.4	52.3	50.0	54.7
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International Avg (n=40)	2011	30376	30.7	19.4	31.8	17.2	0.9	50.1	30.7	31.1	30.4
	2015	30750	33.3	19.6	31.1	15.0	1.1	52.8	33.3	34.1	32.4
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Ontario, Canada	2011	640	57.5	19.5	18.7	3.6	0.7	77.0	57.5	55.2	59.8
	2015	653	59.5	17.4	17.6	4.3	1.3	76.8	59.5	58.2	60.9
Quebec, Canada	2011	616	21.7	17.3	50.9	9.3	0.8	39.0	21.7	22.3	21.1
	2015	403	20.4	13.6	51.0	15.0	0.0	34.0	20.4	21.6	19.4
Norway (4)	2011	439	42.8	14.3	23.8	18.5	0.7	57.0	42.8	43.2	42.3
	2015	597	48.2	16.3	17.0	16.0	2.5	64.4	48.2	51.7	44.4
Abu Dhabi, UAE	2011	588	18.2	19.6	38.8	21.8	1.6	37.8	18.2	18.6	17.8
	2015	714	25.0	24.9	30.0	19.0	1.1	49.9	25.0	25.8	24.3
Dubai, UAE	2011	868	26.7	19.4	30.8	21.6	1.4	46.2	26.7	30.5	23.3
	2015	1070	46.3	22.6	22.3	7.9	0.9	68.9	46.3	45.4	47.0
Florida, US	2011	364	62.6	22.5	12.5	1.9	0.5	85.1	62.6	63.7	61.3
	2015	288	68.6	16.0	12.7	1.6	1.0	84.6	68.6	69.2	68.1
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_11 (M041174): Data Display / Knowing Type: CR 1 Point  
Label: Students sold more than 10 boxes

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	82.6	15.1	1.3	0.9	82.6	84.0	81.4
	2015	875	84.9	13.3	1.0	0.8	84.9	83.9	86.1
Bahrain	2011	588	53.4	42.4	2.6	1.7	53.4	54.1	52.6
	2015	597	43.5	52.5	3.0	0.9	43.5	47.3	39.8
Belgium (Flemish)	2011	694	89.5	9.8	0.3	0.4	89.5	88.4	90.6
	2015	765	87.1	12.0	0.2	0.7	87.1	85.9	88.3
Chile	2011	802	55.5	39.1	2.6	2.8	55.5	53.7	57.0
	2015	674	53.7	37.3	3.4	5.6	53.7	50.1	56.7
Chinese Taipei	2011	616	89.3	9.8	0.5	0.5	89.3	92.0	86.8
	2015	614	87.4	11.9	0.7	0.0	87.4	88.6	86.4
Croatia	2011	659	75.0	21.5	2.7	0.9	75.0	78.8	71.4
	2015	570	76.9	21.7	0.9	0.5	76.9	78.3	75.8
Czech Republic	2011	661	64.0	33.6	2.1	0.3	64.0	67.3	60.7
	2015	749	70.7	27.1	1.8	0.4	70.7	70.9	70.5
Denmark	2011	567	85.8	9.5	2.1	2.6	85.8	83.5	88.1
	2015	531	87.4	8.6	1.0	3.0	87.4	87.3	87.5
England	2011	486	89.9	8.5	1.2	0.4	89.9	87.8	92.0
	2015	569	86.5	11.6	1.4	0.5	86.5	88.8	83.8
Finland	2011	648	95.0	3.7	0.9	0.4	95.0	93.8	96.2
	2015	717	93.0	6.2	0.5	0.3	93.0	94.4	91.7
Georgia	2011	686	61.2	31.7	3.1	4.0	61.2	63.0	59.6
	2015	553	59.6	33.9	3.5	3.1	59.6	66.5	53.5
Germany	2011	581	79.7	19.0	0.8	0.4	79.7	79.3	80.2
	2015	554	76.0	23.0	0.3	0.6	76.0	77.4	74.5
Hong Kong SAR	2011	566	93.9	5.5	0.6	0.0	93.9	94.0	93.8
	2015	517	94.4	5.1	0.4	0.0	94.4	94.9	94.0
Hungary	2011	742	76.9	20.8	0.5	1.9	76.9	77.7	76.1
	2015	715	74.7	24.1	0.7	0.6	74.7	75.0	74.3
Iran, Islamic Rep. of	2011	816	40.9	49.4	5.7	4.0	40.9	38.4	43.4
	2015	542	34.4	56.3	4.9	4.4	34.4	33.9	34.9
Ireland	2011	643	86.8	12.5	0.3	0.4	86.8	89.2	84.2
	2015	626	87.3	11.8	0.4	0.5	87.3	87.9	86.6
Italy	2011	600	66.0	30.9	2.6	0.5	66.0	66.0	66.0
	2015	624	62.2	36.6	0.5	0.7	62.2	60.5	63.9
Japan	2011	628	91.2	8.0	0.5	0.3	91.2	94.3	88.1
	2015	621	92.4	7.0	0.6	0.0	92.4	91.6	93.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_11 (M041174): Data Display / Knowing Type: CR 1 Point  
Label: Students sold more than 10 boxes

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	57.0	38.5	3.4	1.0	57.0	58.4	55.6
	2015	668	66.9	31.5	1.3	0.3	66.9	66.7	67.1
Korea, Rep. of	2011	618	93.4	6.0	0.3	0.3	93.4	93.6	93.3
	2015	664	94.2	4.9	0.3	0.6	94.2	94.9	93.5
Kuwait	2011	586	20.8	66.0	9.7	3.5	20.8	18.7	23.2
	2015	490	23.6	60.4	8.3	7.7	23.6	24.5	23.1
Lithuania	2011	663	70.5	26.9	2.3	0.3	70.5	68.4	72.5
	2015	649	75.4	23.2	0.8	0.7	75.4	73.7	77.1
Morocco	2011	1132	17.3	61.7	15.2	5.8	17.3	21.8	13.3
	2015	729	20.4	70.8	5.2	3.6	20.4	22.4	18.4
Netherlands	2011	465	90.4	8.9	0.0	0.7	90.4	90.3	90.5
	2015	651	85.2	11.3	1.1	2.4	85.2	83.0	87.5
New Zealand	2011	798	80.5	17.6	0.8	1.0	80.5	83.5	77.5
	2015	904	83.7	13.8	1.0	1.5	83.7	86.1	81.3
Northern Ireland	2011	516	92.5	6.3	0.7	0.5	92.5	91.2	93.8
	2015	452	92.2	7.1	0.1	0.5	92.2	91.6	92.8
Oman	2011	1497	34.2	57.3	4.6	3.9	34.2	37.3	31.2
	2015	1307	43.9	51.5	2.6	1.9	43.9	48.1	40.5
Portugal	2011	575	79.4	20.3	0.3	0.0	79.4	79.5	79.3
	2015	685	81.8	17.2	0.4	0.6	81.8	80.0	83.5
Qatar	2011	591	39.8	54.9	3.1	2.2	39.8	37.9	41.4
	2015	728	48.0	46.5	2.0	3.4	48.0	47.9	48.1
Russian Federation	2011	642	74.6	22.5	1.9	1.0	74.6	74.0	75.1
	2015	705	80.8	18.4	0.5	0.3	80.8	79.1	82.5
Saudi Arabia	2011	674	39.0	56.2	2.2	2.5	39.0	38.4	39.7
	2015	622	29.7	58.7	7.5	4.1	29.7	35.2	24.4
Serbia	2011	625	78.8	17.8	2.5	0.9	78.8	81.3	76.4
	2015	589	72.6	24.9	1.3	1.1	72.6	72.0	73.2
Singapore	2011	903	89.3	10.5	0.1	0.1	89.3	89.9	88.7
	2015	939	89.6	10.1	0.1	0.2	89.6	91.9	87.5
Slovak Republic	2011	795	66.0	31.6	1.9	0.5	66.0	65.4	66.7
	2015	818	71.0	25.9	2.4	0.7	71.0	68.3	73.3
Slovenia	2011	642	75.8	20.7	2.5	0.9	75.8	76.5	75.0
	2015	628	82.1	15.2	1.2	1.5	82.1	84.0	80.6
Spain	2011	585	52.2	43.5	2.5	1.9	52.2	51.8	52.5
	2015	1110	55.3	40.2	1.8	2.7	55.3	55.7	54.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_11 (M041174): Data Display / Knowing Type: CR 1 Point  
Label: Students sold more than 10 boxes

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	86.5	12.0	0.7	0.7	86.5	87.5	85.8
	2015	588	85.5	11.1	0.0	3.5	85.5	86.3	84.8
Turkey	2011	1083	60.8	35.6	3.1	0.5	60.8	61.2	60.5
	2015	926	63.9	33.7	2.1	0.2	63.9	64.0	63.9
United Arab Emirates	2011	2070	46.1	48.9	2.9	2.1	46.1	48.0	44.2
	2015	3036	50.3	46.1	2.1	1.5	50.3	50.0	50.6
United States	2011	1800	86.0	12.9	0.5	0.6	86.0	86.4	85.7
	2015	1447	84.7	13.3	0.9	1.1	84.7	85.1	84.4
-----									
International Avg (n=40)	2011	30379	70.2	26.2	2.3	1.3	70.2	70.7	69.8
	2015	30748	70.8	25.9	1.7	1.6	70.8	71.3	70.4
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Ontario, Canada	2011	640	84.4	14.8	0.0	0.9	84.4	85.3	83.4
	2015	653	84.8	13.1	0.6	1.5	84.8	82.8	86.6
Quebec, Canada	2011	616	85.0	13.1	0.4	1.4	85.0	86.6	83.2
	2015	403	81.4	17.9	0.6	0.1	81.4	78.9	83.4
Norway (4)	2011	439	80.0	17.5	1.8	0.7	80.0	81.5	78.5
	2015	597	78.1	16.1	3.0	2.7	78.1	78.4	77.9
Abu Dhabi, UAE	2011	588	41.8	53.5	2.8	1.8	41.8	44.9	38.8
	2015	714	40.7	55.4	2.3	1.6	40.7	40.7	40.7
Dubai, UAE	2011	868	57.4	38.4	2.6	1.6	57.4	59.2	55.8
	2015	1070	69.3	28.6	0.9	1.3	69.3	71.6	67.3
Florida, US	2011	364	83.3	15.2	0.7	0.7	83.3	87.7	78.5
	2015	288	82.7	14.8	0.8	1.6	82.7	85.5	80.4
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M01\_12 (M041191): Data Display / Applying Type: MC Key: D  
Label: Peter's height

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	870	87.8	2.8	1.8	5.1	87.8	1.3	1.3	88.1	87.4
	2015	875	86.7	4.6	2.8	4.1	86.7	0.3	1.4	87.1	86.3
Bahrain	2011	588	67.2	12.6	6.4	9.9	67.2	1.6	2.3	68.4	66.1
	2015	599	69.2	12.3	6.5	10.5	69.2	0.4	1.2	75.7	62.7
Belgium (Flemish)	2011	694	92.9	1.7	1.7	2.8	92.9	0.5	0.4	92.7	93.2
	2015	765	92.2	1.7	1.9	2.9	92.2	0.5	0.8	91.8	92.6
Chile	2011	802	80.7	3.1	5.1	7.0	80.7	1.1	3.0	81.1	80.3
	2015	675	76.2	4.7	5.2	7.0	76.2	0.9	6.1	76.1	76.2
Chinese Taipei	2011	616	97.1	0.6	0.7	0.9	97.1	0.2	0.5	97.8	96.5
	2015	614	97.1	0.5	1.1	1.3	97.1	0.1	0.0	97.5	96.6
Croatia	2011	659	87.9	3.2	3.6	3.7	87.9	0.7	0.9	88.6	87.3
	2015	570	92.4	2.4	2.2	1.9	92.4	0.6	0.5	92.4	92.4
Czech Republic	2011	661	92.7	1.6	1.9	1.8	92.7	1.2	0.9	93.0	92.4
	2015	749	93.2	1.5	1.5	2.1	93.2	1.2	0.5	92.2	94.1
Denmark	2011	567	90.1	1.3	1.8	2.3	90.1	1.9	2.7	87.9	92.2
	2015	531	89.6	1.8	1.8	2.3	89.6	1.2	3.4	91.1	88.1
England	2011	486	87.1	4.7	2.7	3.7	87.1	0.9	0.9	83.9	90.3
	2015	569	90.6	3.6	1.6	2.9	90.6	0.2	1.1	89.6	91.7
Finland	2011	648	93.1	0.5	0.9	2.6	93.1	2.6	0.4	93.0	93.1
	2015	717	91.3	1.4	2.3	3.3	91.3	1.4	0.3	95.1	87.7
Georgia	2011	690	81.8	3.5	5.0	3.2	81.8	2.1	4.4	84.9	79.0
	2015	553	79.8	6.7	3.8	3.8	79.8	2.6	3.4	84.0	76.1
Germany	2011	581	94.9	1.2	0.5	1.5	94.9	1.5	0.4	95.7	94.2
	2015	554	90.8	1.3	1.3	4.1	90.8	1.8	0.6	92.3	89.2
Hong Kong SAR	2011	566	93.4	1.5	1.8	2.8	93.4	0.4	0.0	93.4	93.4
	2015	517	96.1	0.5	0.9	2.3	96.1	0.2	0.0	96.6	95.8
Hungary	2011	743	86.1	2.9	4.1	3.9	86.1	0.9	2.1	87.2	85.2
	2015	715	88.1	2.2	2.6	3.9	88.1	2.3	0.9	92.9	83.1
Iran, Islamic Rep. of	2011	816	74.2	5.7	5.0	7.4	74.2	3.2	4.5	76.8	71.5
	2015	542	71.5	7.3	3.6	10.0	71.5	2.8	4.8	74.6	68.2
Ireland	2011	643	88.5	4.9	2.5	3.3	88.5	0.4	0.4	86.5	90.5
	2015	626	91.9	2.5	1.8	2.4	91.9	0.7	0.5	91.5	92.3
Italy	2011	600	89.3	1.4	3.0	3.6	89.3	2.1	0.6	91.2	87.2
	2015	624	89.6	1.6	3.5	4.0	89.6	0.7	0.7	89.3	89.9
Japan	2011	628	97.6	0.5	0.7	0.5	97.6	0.3	0.3	99.1	96.1
	2015	621	98.4	0.0	0.4	1.2	98.4	0.0	0.0	98.7	98.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M01\_12 (M041191): Data Display / Applying Type: MC Key: D  
Label: Peter's height

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	80.6	8.6	3.3	5.4	80.6	0.8	1.3	79.4	81.9
	2015	668	87.9	3.1	1.6	5.9	87.9	0.9	0.5	87.6	88.2
Korea, Rep. of	2011	618	97.2	0.3	1.0	1.1	97.2	0.1	0.3	95.7	98.6
	2015	664	97.4	0.1	0.9	1.0	97.4	0.0	0.6	98.4	96.4
Kuwait	2011	580	52.2	11.0	14.9	12.4	52.2	5.5	4.1	57.1	46.6
	2015	488	45.5	15.0	14.4	11.4	45.5	5.5	8.2	46.5	45.2
Lithuania	2011	663	87.2	2.9	3.3	5.3	87.2	0.8	0.5	88.2	86.4
	2015	649	89.0	3.5	2.0	4.5	89.0	0.3	0.7	90.4	87.7
Morocco	2011	1067	37.8	15.5	19.0	18.5	37.8	2.5	6.7	39.3	36.5
	2015	731	47.9	12.8	16.1	14.2	47.9	4.8	4.3	48.5	47.3
Netherlands	2011	465	94.9	0.8	1.5	1.5	94.9	0.7	0.7	94.5	95.3
	2015	651	89.1	0.9	2.6	4.1	89.1	0.2	3.1	90.6	87.4
New Zealand	2011	798	87.8	4.4	2.7	3.6	87.8	0.3	1.2	86.4	89.3
	2015	904	88.4	2.6	2.6	3.5	88.4	1.4	1.5	87.7	89.1
Northern Ireland	2011	516	89.4	4.4	1.8	2.4	89.4	1.5	0.5	87.8	91.0
	2015	449	92.9	3.0	1.5	2.5	92.9	0.0	0.0	93.0	92.9
Oman	2011	1497	60.0	11.9	9.6	12.3	60.0	1.9	4.1	62.9	57.2
	2015	1306	70.4	7.4	8.5	10.7	70.4	1.1	1.9	73.0	68.2
Portugal	2011	575	90.0	2.5	2.6	3.8	90.0	0.9	0.2	93.6	86.7
	2015	685	87.4	3.6	2.3	5.1	87.4	0.8	0.7	90.2	84.9
Qatar	2011	591	61.9	12.6	10.2	10.6	61.9	2.3	2.5	66.2	58.2
	2015	728	71.5	9.5	6.4	7.6	71.5	1.1	3.9	75.1	67.8
Russian Federation	2011	642	90.4	2.3	3.0	2.3	90.4	0.7	1.4	90.6	90.3
	2015	705	94.6	1.9	1.0	1.7	94.6	0.4	0.4	95.6	93.7
Saudi Arabia	2011	673	51.0	17.3	14.1	14.0	51.0	1.1	2.6	56.9	44.4
	2015	621	54.5	16.1	11.6	10.8	54.5	2.7	4.4	61.0	48.3
Serbia	2011	625	93.2	1.6	1.1	1.9	93.2	1.1	1.1	92.8	93.5
	2015	589	90.4	1.4	0.9	3.8	90.4	2.2	1.3	88.5	92.2
Singapore	2011	903	94.6	1.2	1.4	2.3	94.6	0.4	0.1	94.5	94.7
	2015	939	94.6	0.6	1.6	2.9	94.6	0.0	0.2	95.5	93.8
Slovak Republic	2011	795	89.5	1.8	3.2	4.3	89.5	0.7	0.5	89.0	90.0
	2015	818	88.0	3.4	1.9	5.2	88.0	0.7	0.7	87.6	88.4
Slovenia	2011	642	91.9	1.8	1.9	2.5	91.9	0.5	1.4	92.8	90.9
	2015	628	93.6	1.1	0.7	2.0	93.6	1.1	1.6	95.6	91.9
Spain	2011	585	88.1	2.2	4.0	2.5	88.1	1.2	2.0	88.3	87.8
	2015	1110	86.6	3.2	2.2	4.0	86.6	1.2	2.8	88.3	85.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M01\_12 (M041191): Data Display / Applying Type: MC Key: D  
Label: Peter's height

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	644	90.6	1.3	2.5	3.0	90.6	1.8	0.8	92.0	89.5
	2015	588	90.5	1.0	1.4	2.0	90.5	1.7	3.5	92.9	88.2
Turkey	2011	1083	82.1	5.3	3.4	8.4	82.1	0.3	0.5	82.1	82.1
	2015	926	86.6	4.6	3.3	4.7	86.6	0.6	0.3	88.7	84.6
United Arab Emirates	2011	2071	69.4	10.4	7.5	8.6	69.4	1.7	2.4	71.3	67.4
	2015	3037	72.5	9.9	6.3	7.1	72.5	2.5	1.6	72.7	72.3
United States	2011	1800	90.3	4.1	1.2	3.0	90.3	0.9	0.7	88.9	91.7
	2015	1447	90.9	3.1	1.3	2.3	90.9	1.1	1.2	90.4	91.4
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International Avg (n=40)	2011	30313	83.8	4.4	4.1	4.9	83.8	1.3	1.5	84.5	83.2
	2015	30747	84.9	4.1	3.4	4.7	84.9	1.2	1.7	86.2	83.6
-----											
Ontario, Canada	2011	640	89.8	4.2	1.2	3.0	89.8	0.8	0.9	90.9	88.7
	2015	652	87.0	4.3	1.8	3.6	87.0	1.5	1.8	86.1	87.8
Quebec, Canada	2011	616	90.3	2.0	2.7	3.1	90.3	0.5	1.4	90.1	90.4
	2015	403	93.2	1.4	1.7	3.1	93.2	0.2	0.5	94.1	92.5
Norway (4)	2011	439	84.9	3.7	4.7	4.7	84.9	1.3	0.7	86.8	83.1
	2015	597	83.6	3.9	3.3	3.2	83.6	2.3	3.6	81.8	85.5
Abu Dhabi, UAE	2011	588	67.3	12.0	7.2	9.3	67.3	2.0	2.1	69.7	65.0
	2015	714	67.5	12.4	7.9	8.2	67.5	2.4	1.7	67.4	67.5
Dubai, UAE	2011	868	77.2	6.3	6.1	6.9	77.2	1.5	2.1	80.3	74.4
	2015	1070	80.7	7.5	3.2	5.4	80.7	1.8	1.4	80.8	80.6
Florida, US	2011	364	93.1	2.4	1.4	2.3	93.1	0.0	0.7	92.9	93.3
	2015	288	90.1	2.8	2.9	0.9	90.1	1.7	1.6	90.0	90.2
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M03\_01 (M051205): Number / Knowing      Type: CR    1 Point  
Label: Subtract 532 from 4809

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	39.8	57.9	2.3	0.0	39.8	41.9	37.7
	2015	839	33.0	62.9	3.9	0.2	33.0	32.2	33.7
Bahrain	2011	574	54.3	43.0	2.5	0.2	54.3	58.9	49.5
	2015	590	46.1	51.3	2.5	0.1	46.1	53.9	38.5
Belgium (Flemish)	2011	704	46.6	52.6	0.8	0.0	46.6	47.2	45.9
	2015	776	49.8	48.3	1.9	0.0	49.8	49.0	50.7
Chile	2011	786	48.7	48.6	2.2	0.5	48.7	47.7	49.6
	2015	675	44.4	47.7	7.1	0.8	44.4	45.9	42.8
Chinese Taipei	2011	613	91.8	7.7	0.5	0.0	91.8	91.6	92.0
	2015	606	91.7	8.2	0.1	0.0	91.7	92.7	90.8
Croatia	2011	646	68.1	31.0	0.8	0.0	68.1	71.9	64.3
	2015	565	63.5	36.1	0.4	0.0	63.5	56.0	71.0
Czech Republic	2011	663	56.9	40.1	2.8	0.3	56.9	59.9	54.0
	2015	731	54.9	42.5	2.6	0.0	54.9	59.1	50.7
Denmark	2011	566	53.5	42.2	4.1	0.1	53.5	56.7	50.3
	2015	537	55.2	40.8	3.5	0.5	55.2	61.5	48.8
England	2011	480	44.0	52.0	4.1	0.0	44.0	48.9	39.7
	2015	569	61.5	36.8	1.4	0.3	61.5	64.2	59.2
Finland	2011	665	47.3	50.0	2.7	0.0	47.3	47.6	47.0
	2015	721	41.8	55.8	2.3	0.0	41.8	40.3	43.2
Georgia	2011	679	64.5	31.2	3.0	1.2	64.5	63.6	65.3
	2015	562	68.0	29.7	1.8	0.4	68.0	68.4	67.7
Germany	2011	569	53.2	43.1	3.7	0.0	53.2	51.9	54.4
	2015	565	48.8	48.0	3.2	0.0	48.8	47.8	49.5
Hong Kong SAR	2011	575	78.1	21.0	0.9	0.0	78.1	74.3	81.5
	2015	507	81.5	17.5	1.0	0.0	81.5	84.3	79.6
Hungary	2011	729	58.9	39.0	1.2	0.9	58.9	60.0	57.9
	2015	725	57.3	41.4	1.2	0.1	57.3	57.9	56.6
Iran, Islamic Rep. of	2011	823	59.7	29.9	9.2	1.3	59.7	60.9	58.4
	2015	546	40.2	46.0	13.6	0.1	40.2	48.0	32.8
Ireland	2011	647	65.5	33.5	1.0	0.0	65.5	66.6	64.4
	2015	620	75.2	23.6	1.2	0.0	75.2	74.2	76.0
Italy	2011	605	75.5	23.2	1.3	0.0	75.5	75.5	75.5
	2015	633	71.9	27.1	1.1	0.0	71.9	68.9	74.6
Japan	2011	628	83.4	16.1	0.0	0.4	83.4	85.5	81.3
	2015	627	84.6	14.9	0.5	0.0	84.6	86.6	82.8

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_01 (M051205): Number / Knowing Type: CR 1 Point  
Label: Subtract 532 from 4809

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	72.7	25.1	2.1	0.1	72.7	74.7	70.8
	2015	676	79.9	19.7	0.4	0.0	79.9	81.2	78.5
Korea, Rep. of	2011	625	87.9	12.0	0.1	0.0	87.9	88.9	86.9
	2015	669	85.0	14.9	0.1	0.0	85.0	84.6	85.4
Kuwait	2011	589	17.5	69.6	11.1	1.8	17.5	19.5	15.2
	2015	503	18.2	66.2	15.0	0.6	18.2	16.0	19.4
Lithuania	2011	664	67.3	31.3	1.4	0.0	67.3	67.5	67.0
	2015	657	71.7	28.2	0.1	0.0	71.7	76.9	66.6
Morocco	2011	1118	38.1	49.0	10.9	1.9	38.1	38.5	37.8
	2015	718	40.9	55.7	3.1	0.3	40.9	38.0	43.6
Netherlands	2011	453	60.5	39.1	0.5	0.0	60.5	61.4	59.8
	2015	653	47.9	50.9	1.2	0.0	47.9	49.3	46.7
New Zealand	2011	786	15.7	80.3	4.0	0.1	15.7	12.1	19.1
	2015	904	17.4	77.8	4.7	0.1	17.4	13.6	21.0
Northern Ireland	2011	514	66.6	32.7	0.8	0.0	66.6	72.7	59.8
	2015	431	69.3	29.3	1.5	0.0	69.3	73.1	66.4
Oman	2011	1491	37.2	60.0	2.3	0.6	37.2	42.6	31.4
	2015	1290	40.8	56.8	2.2	0.2	40.8	43.2	38.2
Portugal	2011	572	66.4	33.3	0.2	0.1	66.4	67.1	65.6
	2015	659	72.3	27.0	0.5	0.2	72.3	73.8	70.7
Qatar	2011	585	40.0	57.3	2.2	0.5	40.0	46.3	34.4
	2015	741	49.0	48.2	2.5	0.3	49.0	52.9	44.8
Russian Federation	2011	626	83.3	16.2	0.4	0.0	83.3	85.6	81.2
	2015	706	83.1	16.7	0.1	0.0	83.1	83.1	83.1
Saudi Arabia	2011	513	33.5	63.0	3.6	0.0	33.5	37.2	29.5
	2015	631	12.3	72.8	14.0	1.0	12.3	19.0	5.8
Serbia	2011	623	79.6	19.2	0.7	0.5	79.6	82.1	77.2
	2015	581	79.1	19.7	1.0	0.2	79.1	82.0	76.3
Singapore	2011	906	91.0	9.0	0.0	0.0	91.0	91.9	90.1
	2015	929	90.5	9.3	0.2	0.0	90.5	90.4	90.5
Slovak Republic	2011	800	62.5	36.7	0.8	0.0	62.5	61.9	63.0
	2015	812	56.2	42.8	0.9	0.1	56.2	55.4	56.9
Slovenia	2011	644	49.1	46.0	4.6	0.3	49.1	43.5	54.0
	2015	623	47.9	47.8	4.3	0.0	47.9	49.0	46.9
Spain	2011	601	65.1	32.6	2.0	0.3	65.1	61.1	69.1
	2015	1113	63.4	34.9	1.8	0.0	63.4	64.1	62.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_01 (M051205): Number / Knowing      Type: CR    1 Point  
Label: Subtract 532 from 4809

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
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Sweden	2011	681	42.3	53.2	4.5	0.0	42.3	38.9	45.7
	2015	597	45.5	52.4	2.1	0.0	45.5	48.1	42.9
Turkey	2011	1066	65.9	31.9	2.1	0.2	65.9	65.7	66.1
	2015	910	64.1	34.0	1.9	0.0	64.1	61.2	67.0
United Arab Emirates	2011	2107	42.6	53.0	4.2	0.2	42.6	42.6	42.7
	2015	3018	48.5	48.6	2.7	0.2	48.5	50.7	46.3
United States	2011	1798	73.2	26.0	0.7	0.1	73.2	77.5	69.0
	2015	1418	70.7	27.3	1.7	0.3	70.7	73.8	67.3
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International Avg (n=40)	2011	30225	58.7	38.5	2.6	0.3	58.7	59.8	57.6
	2015	30633	58.1	39.0	2.8	0.2	58.1	59.3	56.9
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Ontario, Canada	2011	672	46.5	51.1	2.0	0.4	46.5	46.0	47.0
	2015	652	44.6	53.1	2.0	0.4	44.6	45.6	43.4
Quebec, Canada	2011	597	74.0	24.4	1.6	0.0	74.0	78.7	69.0
	2015	395	75.4	21.7	2.9	0.0	75.4	83.1	67.2
Norway (4)	2011	450	42.8	50.7	5.2	1.3	42.8	45.5	39.9
	2015	587	41.6	55.2	2.6	0.6	41.6	41.2	42.1
Abu Dhabi, UAE	2011	601	37.7	57.0	5.1	0.2	37.7	38.6	36.9
	2015	715	39.3	58.2	2.4	0.1	39.3	42.1	36.6
Dubai, UAE	2011	873	56.4	41.5	1.8	0.3	56.4	56.9	55.9
	2015	1060	65.3	33.0	1.6	0.1	65.3	71.6	59.3
Florida, US	2011	380	69.9	29.6	0.6	0.0	69.9	68.0	72.1
	2015	288	78.7	21.3	0.0	0.0	78.7	78.9	78.5
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_02 (M051039): Number / Applying Type: CR 1 Point  
Label: Number of books Mary can buy

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	54.6	9.3	32.8	3.4	0.0	54.6	50.4	58.7
	2015	839	53.9	9.4	33.1	3.2	0.4	53.9	47.8	59.6
Bahrain	2011	574	27.9	4.3	62.3	5.0	0.4	27.9	23.1	32.9
	2015	590	34.3	8.6	52.9	4.2	0.1	34.3	32.0	36.5
Belgium (Flemish)	2011	704	64.9	3.6	30.1	1.3	0.0	64.9	60.0	69.7
	2015	776	62.6	5.2	30.1	2.1	0.0	62.6	53.1	71.6
Chile	2011	786	33.8	4.3	57.4	4.1	0.5	33.8	29.2	38.0
	2015	675	35.1	3.1	50.0	10.7	1.1	35.1	32.9	37.4
Chinese Taipei	2011	613	82.9	2.9	13.7	0.5	0.0	82.9	80.9	84.8
	2015	606	84.8	2.9	11.7	0.5	0.0	84.8	83.2	86.2
Croatia	2011	646	58.6	3.6	35.0	2.9	0.0	58.6	51.1	66.2
	2015	565	53.0	2.3	43.7	1.1	0.0	53.0	43.7	62.3
Czech Republic	2011	663	64.5	9.7	21.1	4.4	0.3	64.5	56.5	72.1
	2015	731	68.4	6.7	21.4	3.6	0.0	68.4	63.4	73.3
Denmark	2011	566	65.3	6.0	22.9	5.7	0.1	65.3	64.5	66.0
	2015	537	69.3	4.5	21.5	3.4	1.3	69.3	66.7	71.9
England	2011	480	59.8	6.4	29.8	4.0	0.0	59.8	55.7	63.3
	2015	569	60.0	7.7	30.7	1.3	0.3	60.0	54.0	65.4
Finland	2011	665	67.9	7.1	21.8	3.2	0.0	67.9	64.4	71.3
	2015	721	69.7	6.1	21.8	2.4	0.0	69.7	64.6	74.5
Georgia	2011	679	45.1	4.9	39.7	9.0	1.2	45.1	44.5	45.6
	2015	562	48.4	3.5	41.7	5.5	0.9	48.4	45.6	51.2
Germany	2011	569	72.8	6.8	18.5	2.0	0.0	72.8	69.4	76.1
	2015	565	73.0	7.3	17.4	2.3	0.0	73.0	66.4	78.6
Hong Kong SAR	2011	575	82.7	4.7	11.4	1.3	0.0	82.7	82.9	82.4
	2015	507	87.2	3.0	9.1	0.7	0.0	87.2	83.2	89.9
Hungary	2011	730	56.6	7.5	32.2	2.8	0.9	56.6	51.5	61.7
	2015	725	56.6	4.7	34.8	3.8	0.1	56.6	53.1	60.1
Iran, Islamic Rep. of	2011	823	23.0	4.9	58.5	12.3	1.4	23.0	17.6	28.1
	2015	546	29.9	6.1	51.1	12.4	0.5	29.9	21.5	37.8
Ireland	2011	647	53.9	6.4	37.9	1.8	0.0	53.9	48.0	59.8
	2015	620	61.6	4.6	32.8	1.0	0.0	61.6	58.5	64.2
Italy	2011	605	48.2	7.1	38.4	6.4	0.0	48.2	41.2	54.5
	2015	633	54.8	7.0	32.9	5.3	0.0	54.8	43.5	65.3
Japan	2011	628	79.1	2.7	17.6	0.2	0.4	79.1	73.7	84.4
	2015	627	83.4	2.2	13.9	0.4	0.1	83.4	83.3	83.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_02 (M051039): Number / Applying Type: CR 1 Point  
Label: Number of books Mary can buy

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	47.7	2.8	45.0	4.3	0.2	47.7	44.8	50.4
	2015	676	69.5	4.7	24.7	1.2	0.0	69.5	66.5	72.7
Korea, Rep. of	2011	625	84.2	2.9	12.3	0.6	0.0	84.2	82.0	86.3
	2015	669	83.4	4.0	12.4	0.1	0.0	83.4	81.5	85.2
Kuwait	2011	587	11.1	5.8	68.1	13.2	1.8	11.1	11.2	10.9
	2015	503	14.8	1.7	61.5	21.3	0.6	14.8	11.8	18.4
Lithuania	2011	664	69.5	7.5	20.5	2.5	0.0	69.5	64.4	74.6
	2015	657	69.8	6.4	21.6	2.2	0.0	69.8	67.5	72.0
Morocco	2011	1118	18.0	7.5	55.5	16.7	2.2	18.0	17.9	18.1
	2015	718	17.2	1.0	75.7	5.5	0.5	17.2	15.2	19.1
Netherlands	2011	453	74.8	6.2	19.0	0.0	0.0	74.8	68.9	82.5
	2015	653	73.3	3.4	22.1	1.2	0.1	73.3	67.0	79.1
New Zealand	2011	786	42.8	6.7	47.4	3.0	0.1	42.8	39.4	46.2
	2015	904	44.0	7.7	44.6	3.6	0.1	44.0	39.8	48.0
Northern Ireland	2011	514	70.2	3.7	24.3	1.9	0.0	70.2	68.7	71.8
	2015	431	68.9	4.2	25.9	0.8	0.2	68.9	64.2	72.5
Oman	2011	1491	14.8	2.0	75.4	7.2	0.6	14.8	14.4	15.3
	2015	1291	18.3	5.6	71.9	3.9	0.4	18.3	16.1	20.7
Portugal	2011	572	53.2	5.3	40.2	1.2	0.1	53.2	48.5	57.8
	2015	659	58.5	4.2	35.7	1.4	0.2	58.5	55.3	61.6
Qatar	2011	585	23.8	3.8	66.3	5.6	0.5	23.8	22.0	25.5
	2015	741	26.7	3.3	64.3	5.3	0.5	26.7	22.0	31.7
Russian Federation	2011	626	64.8	2.5	29.3	3.4	0.0	64.8	67.2	62.6
	2015	706	71.6	4.7	21.8	1.9	0.0	71.6	67.4	75.5
Saudi Arabia	2011	513	23.9	5.2	65.4	5.4	0.0	23.9	16.9	31.3
	2015	631	24.9	3.4	58.6	12.0	1.1	24.9	22.6	27.1
Serbia	2011	623	68.0	2.2	24.9	4.3	0.6	68.0	63.7	72.4
	2015	581	63.9	1.3	31.5	2.9	0.3	63.9	57.9	69.5
Singapore	2011	906	75.2	1.8	23.0	0.1	0.0	75.2	76.3	74.2
	2015	929	77.2	1.3	21.0	0.5	0.0	77.2	72.8	81.1
Slovak Republic	2011	800	56.3	5.7	34.3	3.7	0.0	56.3	50.0	62.4
	2015	812	61.2	13.1	24.1	1.5	0.1	61.2	55.5	66.2
Slovenia	2011	644	49.0	5.5	40.2	5.0	0.3	49.0	38.7	57.8
	2015	623	48.3	6.5	41.9	3.3	0.0	48.3	44.3	51.6
Spain	2011	601	38.1	6.3	49.8	5.5	0.3	38.1	31.7	44.3
	2015	1113	44.4	4.9	45.6	5.1	0.0	44.4	35.5	52.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_02 (M051039): Number / Applying Type: CR 1 Point  
Label: Number of books Mary can buy

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	68.0	5.5	22.3	4.0	0.1	68.0	62.7	73.3
	2015	597	67.0	5.8	25.6	1.7	0.0	67.0	67.1	67.0
Turkey	2011	1066	43.8	2.5	50.1	3.3	0.3	43.8	42.5	45.2
	2015	910	46.8	2.6	48.0	2.6	0.0	46.8	44.3	49.3
United Arab Emirates	2011	2107	27.6	4.0	61.2	6.6	0.6	27.6	23.0	32.2
	2015	3018	34.5	4.8	55.8	4.5	0.4	34.5	31.1	37.8
United States	2011	1798	51.8	6.8	40.7	0.6	0.1	51.8	46.9	56.6
	2015	1418	53.1	6.2	38.8	1.6	0.3	53.1	50.2	56.2
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International Avg (n=40)	2011	30224	53.0	5.1	37.4	4.2	0.3	53.0	49.2	56.7
	2015	30634	55.6	4.9	35.6	3.7	0.2	55.6	51.3	59.6
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Ontario, Canada	2011	672	50.6	4.8	40.8	3.3	0.5	50.6	48.8	52.4
	2015	652	50.9	7.7	38.1	2.6	0.7	50.9	48.9	52.7
Quebec, Canada	2011	597	62.8	3.5	31.3	2.4	0.0	62.8	58.2	67.8
	2015	395	51.5	6.4	36.2	4.1	1.8	51.5	42.4	61.2
Norway (4)	2011	450	57.0	8.8	27.6	5.3	1.3	57.0	50.9	63.6
	2015	587	52.9	8.3	34.4	3.3	1.2	52.9	47.0	58.7
Abu Dhabi, UAE	2011	601	25.9	4.4	63.6	5.5	0.5	25.9	20.9	30.8
	2015	715	28.0	6.2	61.3	4.2	0.3	28.0	25.9	29.9
Dubai, UAE	2011	873	34.8	4.3	55.9	4.5	0.4	34.8	31.6	37.8
	2015	1060	48.7	3.8	45.0	2.4	0.1	48.7	45.0	52.3
Florida, US	2011	380	46.6	4.6	48.0	0.8	0.0	46.6	44.2	49.3
	2015	288	52.7	7.5	39.3	0.4	0.0	52.7	53.0	52.4
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M03\_03 (M051055): Number / Applying Type: CR 1 Point  
Label: Trip from Newtown to Oldtown

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	15.4	82.1	2.5	0.1	15.4	10.9	19.7
	2015	839	19.8	77.7	2.0	0.5	19.8	13.0	26.1
Bahrain	2011	574	6.3	88.1	5.3	0.4	6.3	2.9	9.8
	2015	590	11.6	83.1	5.2	0.1	11.6	9.4	13.8
Belgium (Flemish)	2011	704	48.0	50.6	1.5	0.0	48.0	47.9	48.0
	2015	776	47.6	50.3	2.1	0.0	47.6	42.0	53.0
Chile	2011	786	5.7	87.7	6.0	0.6	5.7	2.1	9.0
	2015	675	6.4	79.7	12.7	1.3	6.4	4.6	8.3
Chinese Taipei	2011	613	59.5	39.8	0.7	0.0	59.5	58.9	60.0
	2015	606	63.0	35.5	1.4	0.0	63.0	60.8	64.9
Croatia	2011	646	15.7	75.1	9.2	0.0	15.7	12.1	19.3
	2015	565	15.7	79.4	4.9	0.0	15.7	8.8	22.6
Czech Republic	2011	663	29.4	61.1	9.2	0.3	29.4	22.3	36.2
	2015	731	33.7	60.0	6.1	0.2	33.7	24.3	43.1
Denmark	2011	566	23.9	70.9	4.6	0.7	23.9	16.4	31.5
	2015	537	26.7	67.9	3.8	1.6	26.7	20.0	33.5
England	2011	480	29.5	65.5	4.6	0.4	29.5	23.8	34.4
	2015	569	38.3	57.9	3.5	0.3	38.3	35.8	40.6
Finland	2011	665	24.5	71.8	3.6	0.1	24.5	17.5	31.2
	2015	721	17.9	77.9	4.2	0.0	17.9	14.2	21.3
Georgia	2011	679	15.6	68.5	13.9	1.9	15.6	18.1	13.4
	2015	562	15.1	73.8	10.2	0.9	15.1	9.8	20.4
Germany	2011	569	46.7	48.1	5.2	0.0	46.7	41.0	52.0
	2015	565	43.1	52.9	4.0	0.0	43.1	36.5	48.8
Hong Kong SAR	2011	575	42.3	56.2	1.5	0.0	42.3	34.7	49.1
	2015	507	57.2	41.9	0.9	0.0	57.2	47.5	63.8
Hungary	2011	730	35.9	58.3	4.9	0.9	35.9	28.6	43.1
	2015	725	35.0	60.9	4.0	0.1	35.0	30.9	39.0
Iran, Islamic Rep. of	2011	823	2.3	81.2	15.0	1.4	2.3	1.9	2.7
	2015	546	4.1	86.0	9.4	0.5	4.1	3.5	4.8
Ireland	2011	647	17.5	80.3	2.2	0.0	17.5	10.6	24.4
	2015	620	25.2	74.2	0.6	0.0	25.2	22.5	27.6
Italy	2011	605	10.4	81.1	8.0	0.5	10.4	8.6	12.0
	2015	633	15.9	78.8	5.0	0.3	15.9	7.9	23.4
Japan	2011	628	28.1	70.8	0.7	0.4	28.1	18.0	38.2
	2015	627	35.4	63.9	0.6	0.1	35.4	26.8	43.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_03 (M051055): Number / Applying Type: CR 1 Point  
Label: Trip from Newtown to Oldtown

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	23.2	73.2	3.0	0.5	23.2	21.0	25.3
	2015	676	37.8	60.5	1.7	0.0	37.8	37.5	38.1
Korea, Rep. of	2011	625	44.3	54.5	1.2	0.0	44.3	38.4	49.8
	2015	669	40.0	58.8	1.3	0.0	40.0	33.2	46.3
Kuwait	2011	589	1.3	79.9	17.0	1.9	1.3	0.4	2.3
	2015	503	2.5	73.5	22.8	1.1	2.5	1.0	4.2
Lithuania	2011	664	33.9	62.2	3.9	0.0	33.9	32.4	35.4
	2015	657	38.3	58.8	2.8	0.0	38.3	36.8	39.7
Morocco	2011	1117	4.8	62.4	30.1	2.8	4.8	3.8	5.6
	2015	718	3.7	81.4	14.2	0.7	3.7	3.3	4.1
Netherlands	2011	453	57.1	42.2	0.7	0.0	57.1	52.9	62.6
	2015	653	56.4	42.1	1.5	0.1	56.4	49.8	62.5
New Zealand	2011	786	13.0	83.6	3.1	0.4	13.0	9.7	16.2
	2015	904	19.3	76.9	3.5	0.2	19.3	17.1	21.4
Northern Ireland	2011	514	44.5	53.4	2.1	0.0	44.5	41.5	47.8
	2015	431	51.7	47.3	0.8	0.2	51.7	49.0	53.8
Oman	2011	1491	1.6	90.7	6.8	0.8	1.6	1.8	1.5
	2015	1289	2.3	91.7	5.5	0.5	2.3	1.7	2.9
Portugal	2011	572	8.1	90.3	1.4	0.1	8.1	5.9	10.4
	2015	659	10.5	87.8	1.5	0.2	10.5	9.1	11.8
Qatar	2011	585	8.3	85.4	5.7	0.6	8.3	5.0	11.2
	2015	741	8.6	85.5	5.3	0.7	8.6	6.1	11.2
Russian Federation	2011	626	26.7	68.0	4.8	0.5	26.7	29.5	24.0
	2015	706	33.1	64.2	2.7	0.0	33.1	26.1	39.6
Saudi Arabia	2011	513	7.0	88.0	4.9	0.0	7.0	3.1	11.1
	2015	631	5.3	79.0	14.7	1.1	5.3	4.4	6.2
Serbia	2011	623	30.0	57.9	10.8	1.2	30.0	22.1	38.0
	2015	581	29.5	60.6	9.5	0.3	29.5	23.4	35.2
Singapore	2011	906	64.3	35.7	0.0	0.0	64.3	65.3	63.4
	2015	929	69.6	30.0	0.3	0.0	69.6	68.7	70.4
Slovak Republic	2011	800	24.2	69.4	6.3	0.0	24.2	17.3	31.1
	2015	812	32.3	61.5	6.0	0.1	32.3	29.7	34.7
Slovenia	2011	644	20.3	70.3	9.2	0.3	20.3	11.6	27.6
	2015	623	15.8	76.6	7.6	0.0	15.8	11.7	19.4
Spain	2011	601	5.0	87.9	6.5	0.7	5.0	2.2	7.7
	2015	1113	6.0	88.3	5.6	0.1	6.0	3.2	8.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_03 (M051055): Number / Applying Type: CR 1 Point  
Label: Trip from Newtown to Oldtown

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	27.8	66.1	5.8	0.3	27.8	20.2	35.3
	2015	597	28.6	67.2	4.0	0.1	28.6	27.4	29.7
Turkey	2011	1066	11.1	82.3	6.2	0.4	11.1	9.3	12.9
	2015	910	14.1	81.4	4.4	0.2	14.1	10.5	17.6
United Arab Emirates	2011	2107	6.7	85.6	6.8	0.8	6.7	3.5	9.8
	2015	3018	9.6	84.4	5.7	0.4	9.6	5.2	13.7
United States	2011	1798	23.7	75.3	0.9	0.1	23.7	22.2	25.2
	2015	1418	23.5	73.9	2.2	0.3	23.5	20.3	27.1
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International Avg (n=40)	2011	30225	23.6	70.0	5.9	0.5	23.6	19.9	27.2
	2015	30632	26.3	68.3	5.1	0.3	26.3	22.3	29.9
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Ontario, Canada	2011	672	17.0	79.0	3.0	1.0	17.0	14.2	19.8
	2015	652	16.2	81.1	1.8	0.8	16.2	10.5	21.7
Quebec, Canada	2011	597	8.5	88.7	2.8	0.0	8.5	5.6	11.6
	2015	395	11.5	83.4	3.2	1.9	11.5	8.3	14.9
Norway (4)	2011	450	16.8	76.9	4.5	1.8	16.8	8.8	25.5
	2015	587	16.8	75.1	6.7	1.5	16.8	10.2	23.1
Abu Dhabi, UAE	2011	601	4.4	87.7	7.3	0.5	4.4	2.5	6.3
	2015	715	6.4	88.6	4.7	0.3	6.4	2.6	10.0
Dubai, UAE	2011	873	13.0	82.5	4.0	0.4	13.0	6.2	19.3
	2015	1060	17.5	79.2	3.2	0.1	17.5	11.0	23.8
Florida, US	2011	380	17.4	81.8	0.8	0.0	17.4	17.0	17.8
	2015	288	18.9	80.8	0.3	0.0	18.9	13.6	24.5
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_04 (M051006): Number / Reasoning      Type: CR    2 Points  
Label: Cost of ice cream

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	10.7	8.8	9.0	67.3	4.0	0.2	28.5	10.7	9.5	11.9
	2015	839	16.3	6.4	9.0	62.2	5.6	0.5	31.7	16.3	15.7	16.9
Bahrain	2011	574	6.6	3.7	9.0	73.3	7.0	0.4	19.3	6.6	6.9	6.2
	2015	589	6.0	8.3	9.8	70.7	5.0	0.2	24.1	6.0	6.4	5.5
Belgium (Flemish)	2011	704	14.5	10.4	7.2	64.1	3.8	0.0	32.1	14.5	12.6	16.3
	2015	776	13.6	11.0	7.6	61.5	6.2	0.0	32.2	13.6	12.4	14.7
Chile	2011	786	8.5	6.8	10.1	66.4	7.4	0.8	25.4	8.5	6.8	10.1
	2015	675	8.7	4.5	8.5	61.8	14.3	2.3	21.7	8.7	8.0	9.5
Chinese Taipei	2011	613	22.8	11.0	8.4	51.9	5.9	0.0	42.2	22.8	23.2	22.5
	2015	606	23.7	11.2	9.5	49.6	6.1	0.0	44.4	23.7	21.3	25.7
Croatia	2011	646	15.1	5.8	8.2	57.2	13.6	0.1	29.1	15.1	11.1	19.1
	2015	565	14.8	4.6	7.9	62.1	10.6	0.0	27.3	14.8	9.4	20.1
Czech Republic	2011	663	17.8	5.8	7.0	48.9	20.0	0.5	30.6	17.8	18.7	16.9
	2015	731	16.1	5.4	8.1	49.4	20.9	0.2	29.5	16.1	15.6	16.6
Denmark	2011	566	24.6	9.4	8.4	41.8	15.1	0.7	42.4	24.6	28.7	20.5
	2015	537	22.7	9.6	7.6	41.3	17.0	1.8	39.8	22.7	21.9	23.5
England	2011	480	16.7	8.0	7.9	58.0	8.9	0.5	32.6	16.7	18.5	15.2
	2015	569	17.0	8.1	5.8	62.4	6.5	0.3	30.9	17.0	15.1	18.7
Finland	2011	665	31.2	7.1	8.4	40.3	12.8	0.1	46.7	31.2	28.4	33.9
	2015	721	29.0	6.7	9.3	47.1	7.9	0.0	45.0	29.0	30.2	27.8
Georgia	2011	679	9.2	9.0	3.9	54.9	20.9	2.2	22.0	9.2	7.2	11.0
	2015	562	11.5	12.6	5.9	54.1	14.6	1.3	30.0	11.5	11.8	11.2
Germany	2011	569	15.9	8.9	5.1	47.2	22.7	0.2	29.9	15.9	12.7	18.9
	2015	565	15.2	8.4	5.3	49.5	21.7	0.0	28.8	15.2	11.7	17.9
Hong Kong SAR	2011	575	28.8	10.0	7.6	49.1	4.5	0.0	46.3	28.8	26.6	30.6
	2015	507	33.8	12.8	7.6	42.7	3.1	0.0	54.2	33.8	28.4	37.6
Hungary	2011	729	19.6	5.5	7.2	57.1	9.6	0.9	32.4	19.6	21.2	18.1
	2015	725	18.9	6.7	8.8	58.2	7.2	0.1	34.5	18.9	19.4	18.5
Iran, Islamic Rep. of	2011	823	4.5	5.2	7.0	61.3	19.5	2.6	16.7	4.5	4.6	4.4
	2015	546	5.2	5.6	3.3	71.6	13.8	0.6	14.0	5.2	3.8	6.5
Ireland	2011	647	11.6	7.2	7.6	68.5	5.1	0.0	26.4	11.6	8.1	15.1
	2015	620	15.8	7.5	6.4	66.7	3.6	0.0	29.7	15.8	13.9	17.4
Italy	2011	604	16.3	8.4	7.6	52.5	14.7	0.5	32.3	16.3	17.8	14.9
	2015	633	13.4	7.4	6.0	59.4	13.5	0.3	26.8	13.4	10.0	16.6
Japan	2011	628	26.8	9.0	10.0	50.9	2.9	0.4	45.8	26.8	18.6	35.0
	2015	627	29.6	7.7	9.2	50.9	2.4	0.1	46.5	29.6	25.7	33.3

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_04 (M051006): Number / Reasoning      Type: CR    2 Points  
Label: Cost of ice cream

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	27.4	8.5	4.3	51.0	8.2	0.6	40.2	27.4	25.8	29.0
	2015	676	47.5	8.9	6.7	35.2	1.6	0.0	63.1	47.5	48.5	46.3
Korea, Rep. of	2011	625	42.2	12.4	6.8	36.1	2.5	0.0	61.4	42.2	40.0	44.2
	2015	669	40.8	13.6	8.7	34.9	1.9	0.1	63.1	40.8	39.3	42.1
Kuwait	2011	587	2.7	3.0	5.7	71.6	14.3	2.7	11.4	2.7	0.7	5.1
	2015	503	3.1	3.8	4.7	64.7	21.6	2.1	11.6	3.1	3.1	3.1
Lithuania	2011	664	15.8	11.3	6.5	53.7	12.6	0.1	33.6	15.8	13.9	17.7
	2015	657	14.7	11.1	8.5	49.8	15.8	0.0	34.3	14.7	13.5	16.0
Morocco	2011	1118	10.0	3.5	4.0	54.1	24.0	4.3	17.6	10.0	8.3	11.4
	2015	718	4.6	3.3	5.8	71.9	13.1	1.2	13.7	4.6	3.5	5.6
Netherlands	2011	453	15.2	11.4	9.2	59.5	4.6	0.0	35.9	15.2	12.7	18.4
	2015	653	15.5	9.5	10.2	57.1	7.7	0.1	35.2	15.5	12.8	18.0
New Zealand	2011	786	8.3	5.7	9.4	71.0	5.1	0.4	23.5	8.3	7.1	9.5
	2015	904	9.4	9.6	8.5	67.9	4.1	0.6	27.4	9.4	6.6	12.0
Northern Ireland	2011	514	16.1	8.7	10.2	57.9	7.1	0.0	35.0	16.1	12.9	19.5
	2015	431	14.9	9.9	8.8	62.2	4.0	0.2	33.6	14.9	15.2	14.7
Oman	2011	1491	4.3	3.0	5.4	77.0	9.2	1.2	12.7	4.3	5.4	3.1
	2015	1290	7.4	4.0	6.7	75.4	5.8	0.6	18.1	7.4	8.9	5.8
Portugal	2011	572	16.7	7.7	8.0	60.9	6.7	0.1	32.3	16.7	16.6	16.7
	2015	659	10.1	9.0	11.8	58.6	10.0	0.4	31.0	10.1	9.2	11.0
Qatar	2011	585	6.9	5.0	5.6	72.7	9.1	0.6	17.6	6.9	6.8	7.0
	2015	741	5.4	6.5	6.2	74.0	7.1	0.9	18.0	5.4	5.3	5.5
Russian Federation	2011	626	19.4	16.6	6.2	46.0	11.2	0.5	42.3	19.4	19.4	19.4
	2015	706	24.3	14.8	5.8	48.1	7.0	0.0	44.9	24.3	23.3	25.2
Saudi Arabia	2011	512	9.2	3.7	11.9	68.6	6.6	0.0	24.8	9.2	5.5	13.1
	2015	630	4.9	5.4	7.2	67.7	13.8	1.1	17.4	4.9	3.8	5.9
Serbia	2011	623	17.5	5.2	1.9	54.0	20.1	1.2	24.6	17.5	15.6	19.3
	2015	580	18.1	9.1	4.3	48.1	20.0	0.3	31.5	18.1	16.7	19.4
Singapore	2011	906	49.6	18.3	3.5	28.2	0.4	0.0	71.4	49.6	50.7	48.5
	2015	929	50.8	17.4	4.5	26.7	0.6	0.0	72.7	50.8	47.8	53.5
Slovak Republic	2011	800	21.1	4.4	11.0	52.0	11.3	0.3	36.4	21.1	20.3	21.8
	2015	812	18.0	7.9	9.4	50.1	14.6	0.1	35.2	18.0	18.6	17.4
Slovenia	2011	644	9.6	7.8	6.9	59.9	15.6	0.3	24.3	9.6	7.5	11.5
	2015	623	14.8	7.2	7.8	59.4	10.8	0.0	29.8	14.8	13.6	15.8
Spain	2011	601	9.2	7.3	9.6	53.7	19.4	0.8	26.1	9.2	9.1	9.3
	2015	1113	12.1	9.2	11.0	52.7	14.8	0.1	32.3	12.1	10.1	14.0

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_04 (M051006): Number / Reasoning      Type: CR    2 Points  
Label: Cost of ice cream

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	26.9	7.5	8.6	44.3	12.3	0.5	42.9	26.9	29.5	24.4
	2015	597	30.2	10.3	6.5	41.6	11.3	0.1	47.0	30.2	32.4	28.2
Turkey	2011	1066	11.9	7.4	8.7	63.0	8.6	0.4	28.0	11.9	8.6	15.0
	2015	910	10.5	6.6	10.2	65.0	7.5	0.3	27.3	10.5	9.3	11.7
United Arab Emirates	2011	2107	8.0	5.0	7.1	70.9	8.1	0.9	20.1	8.0	6.0	9.9
	2015	3018	9.8	4.6	6.3	72.7	6.1	0.5	20.7	9.8	8.8	10.8
United States	2011	1798	14.1	7.6	8.7	66.9	2.6	0.1	30.4	14.1	13.9	14.4
	2015	1418	14.2	8.0	10.3	64.8	2.1	0.6	32.6	14.2	13.5	15.0
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International Avg (n=40)	2011	30221	16.6	7.8	7.5	57.1	10.5	0.6	31.8	16.6	15.4	17.7
	2015	30630	17.3	8.3	7.6	56.8	9.5	0.4	33.3	17.3	16.1	18.4
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Ontario, Canada	2011	672	16.3	6.0	10.0	60.8	5.6	1.2	32.3	16.3	19.1	13.5
	2015	652	12.2	10.7	9.0	62.1	5.1	0.8	31.9	12.2	10.6	13.9
Quebec, Canada	2011	597	21.0	5.6	10.9	53.8	8.7	0.0	37.5	21.0	18.8	23.3
	2015	395	25.9	5.4	4.5	54.4	7.3	2.4	35.8	25.9	28.6	23.0
Norway (4)	2011	450	16.0	9.8	7.4	47.4	17.5	1.8	33.2	16.0	19.1	12.7
	2015	587	13.7	10.1	9.0	52.9	12.5	1.9	32.8	13.7	10.5	16.8
Abu Dhabi, UAE	2011	601	7.0	3.5	6.1	75.6	7.2	0.5	16.7	7.0	4.2	9.8
	2015	715	7.1	2.9	4.7	78.9	6.0	0.4	14.7	7.1	7.4	6.8
Dubai, UAE	2011	873	10.1	6.0	6.8	69.5	6.7	0.9	22.9	10.1	9.1	10.9
	2015	1060	16.8	5.6	8.2	64.9	4.5	0.1	30.6	16.8	14.9	18.5
Florida, US	2011	380	14.5	8.9	7.9	66.6	2.0	0.0	31.3	14.5	14.0	15.2
	2015	288	17.0	10.5	7.6	62.4	2.5	0.0	35.1	17.0	15.3	18.8
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_05 (M051070): Number / Applying Type: MC Key: B  
Label: Jim's money after purchase

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	27.9	28.6	27.9	29.3	11.8	2.1	0.2	27.2	28.7
	2015	839	32.3	24.6	32.3	31.2	10.4	1.0	0.5	30.0	34.4
Bahrain	2011	574	19.2	38.5	19.2	21.6	14.0	5.5	1.1	17.3	21.3
	2015	589	20.0	36.2	20.0	27.1	12.9	3.5	0.2	18.0	21.9
Belgium (Flemish)	2011	704	44.6	18.3	44.6	29.1	6.2	1.7	0.1	45.0	44.2
	2015	776	38.2	25.6	38.2	28.4	6.6	1.1	0.0	35.1	41.1
Chile	2011	786	19.8	48.3	19.8	16.4	8.9	5.0	1.7	17.9	21.5
	2015	675	19.2	46.1	19.2	15.8	9.9	6.0	3.1	17.2	21.3
Chinese Taipei	2011	613	63.8	15.2	63.8	14.5	4.9	1.6	0.0	63.5	64.0
	2015	606	64.0	17.6	64.0	12.3	3.9	2.2	0.0	59.3	68.0
Croatia	2011	0	.	.	.	.	.	.	.	.	.
	2015	565	25.8	26.4	25.8	33.8	10.9	3.1	0.0	21.9	29.6
Czech Republic	2011	663	26.4	26.1	26.4	33.2	6.7	7.2	0.5	27.3	25.5
	2015	731	30.4	25.8	30.4	30.0	6.1	6.8	0.8	27.9	33.0
Denmark	2011	566	24.8	22.0	24.8	35.7	10.3	5.8	1.4	24.6	25.1
	2015	537	28.5	20.5	28.5	34.3	9.2	4.4	3.2	25.7	31.3
England	2011	480	42.2	22.5	42.2	21.2	10.0	3.5	0.5	41.7	42.7
	2015	569	39.7	25.5	39.7	22.7	9.9	1.8	0.4	42.1	37.5
Finland	2011	665	38.2	18.9	38.2	33.2	7.9	1.7	0.1	35.4	40.8
	2015	721	33.6	21.0	33.6	33.4	7.9	4.0	0.0	34.2	33.0
Georgia	2011	678	32.9	30.7	32.9	19.9	7.5	6.4	2.6	31.2	34.4
	2015	562	40.1	23.7	40.1	22.8	6.3	5.6	1.5	35.2	45.1
Germany	2011	569	46.0	18.8	46.0	26.6	5.5	2.9	0.2	47.8	44.3
	2015	565	38.3	22.5	38.3	28.3	6.9	3.4	0.6	38.2	38.5
Hong Kong SAR	2011	575	43.4	11.1	43.4	35.2	8.8	1.6	0.0	38.8	47.4
	2015	507	49.3	13.0	49.3	29.3	7.2	1.2	0.0	41.4	54.7
Hungary	2011	730	28.2	36.6	28.2	22.4	7.0	4.3	1.5	25.4	31.0
	2015	725	26.2	41.7	26.2	21.3	7.1	3.4	0.3	23.7	28.7
Iran, Islamic Rep. of	2011	823	18.9	38.5	18.9	18.2	9.7	11.1	3.5	18.0	19.8
	2015	546	22.0	43.2	22.0	18.3	9.3	6.6	0.7	23.0	21.1
Ireland	2011	647	42.5	22.2	42.5	23.3	8.2	3.8	0.0	41.4	43.5
	2015	620	49.0	21.6	49.0	21.7	5.7	1.7	0.3	47.4	50.3
Italy	2011	605	27.8	33.3	27.8	24.7	8.3	5.1	0.8	27.1	28.5
	2015	633	33.7	30.6	33.7	20.4	9.1	5.1	1.0	29.7	37.4
Japan	2011	628	48.9	23.6	48.9	19.0	6.2	1.9	0.4	47.0	50.7
	2015	627	53.8	20.3	53.8	16.9	7.3	1.7	0.1	58.5	49.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_05 (M051070): Number / Applying Type: MC Key: B  
Label: Jim's money after purchase

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	38.0	37.7	38.0	13.7	5.0	4.5	1.2	37.1	38.8
	2015	676	55.1	29.1	55.1	11.3	3.9	0.6	0.0	55.0	55.2
Korea, Rep. of	2011	625	65.9	11.5	65.9	15.9	5.0	1.8	0.0	61.2	70.2
	2015	669	62.8	10.8	62.8	19.1	5.8	1.3	0.2	62.7	62.9
Kuwait	2011	579	23.7	30.9	23.7	23.0	9.3	10.2	3.0	24.8	22.4
	2015	503	18.3	30.1	18.3	19.5	13.4	15.7	2.9	17.0	18.6
Lithuania	2011	664	51.0	20.1	51.0	21.8	5.2	1.7	0.2	48.7	53.3
	2015	657	55.7	16.2	55.7	20.5	6.2	1.3	0.1	53.3	58.0
Morocco	2011	1095	25.8	34.2	25.8	16.4	7.6	11.2	4.9	21.3	29.5
	2015	718	22.0	39.0	22.0	18.9	12.4	6.4	1.2	20.5	23.3
Netherlands	2011	453	51.8	15.8	51.8	24.8	6.3	1.3	0.0	47.4	57.6
	2015	653	43.6	21.7	43.6	25.3	6.7	2.5	0.3	43.8	43.3
New Zealand	2011	786	23.4	27.3	23.4	35.5	11.3	1.7	0.7	23.6	23.2
	2015	904	26.7	25.3	26.7	31.6	13.2	2.5	0.7	24.9	28.4
Northern Ireland	2011	514	52.3	21.8	52.3	17.3	7.1	1.6	0.0	55.0	49.1
	2015	421	56.1	18.8	56.1	18.0	7.2	0.0	0.0	60.9	52.5
Oman	2011	1491	24.4	34.0	24.4	18.7	13.1	8.3	1.5	24.8	23.9
	2015	1283	24.4	38.8	24.4	18.4	12.9	4.8	0.7	21.6	27.5
Portugal	2011	572	42.4	27.5	42.4	19.3	7.8	2.5	0.6	43.1	41.8
	2015	659	40.6	32.9	40.6	16.2	5.5	4.0	0.8	40.3	40.9
Qatar	2011	585	21.7	33.7	21.7	25.7	12.8	5.2	0.8	20.3	22.9
	2015	741	21.5	38.3	21.5	21.2	13.2	4.9	1.0	22.4	20.5
Russian Federation	2011	626	39.1	26.5	39.1	23.4	7.9	2.4	0.7	40.7	37.5
	2015	706	43.2	22.6	43.2	24.8	7.4	1.8	0.1	41.9	44.4
Saudi Arabia	2011	513	20.6	36.2	20.6	24.2	14.7	3.9	0.4	19.2	22.1
	2015	630	22.9	35.6	22.9	23.9	9.6	6.7	1.3	22.7	23.1
Serbia	2011	623	33.7	22.6	33.7	29.9	5.6	6.4	1.7	29.6	37.9
	2015	581	27.6	32.6	27.6	27.0	6.6	5.9	0.3	25.6	29.5
Singapore	2011	906	82.6	6.6	82.6	5.7	4.1	1.0	0.0	85.5	79.9
	2015	929	83.2	6.9	83.2	6.6	2.9	0.4	0.0	85.0	81.7
Slovak Republic	2011	800	33.4	28.0	33.4	27.6	6.7	3.9	0.4	32.9	34.0
	2015	812	31.8	33.4	31.8	26.6	5.5	2.6	0.1	31.2	32.4
Slovenia	2011	643	28.4	22.1	28.4	31.0	9.5	7.9	1.1	23.5	32.7
	2015	623	27.0	22.9	27.0	36.0	11.2	2.9	0.0	23.4	30.1
Spain	2011	601	28.6	35.8	28.6	18.6	9.9	5.9	1.2	28.2	28.9
	2015	1113	30.5	33.4	30.5	22.3	9.2	3.8	0.8	30.7	30.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M03\_05 (M051070): Number / Applying Type: MC Key: B  
Label: Jim's money after purchase

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	31.2	20.8	31.2	35.1	8.0	3.7	1.1	32.9	29.6
	2015	597	27.7	26.0	27.7	33.7	5.7	6.2	0.7	24.8	30.4
Turkey	2011	1066	35.3	24.4	35.3	25.1	11.8	2.9	0.6	33.6	37.0
	2015	910	31.7	27.1	31.7	25.0	12.8	3.0	0.4	27.4	36.0
United Arab Emirates	2011	2107	22.6	32.2	22.6	24.1	14.2	5.9	1.1	22.7	22.4
	2015	3018	25.2	34.6	25.2	22.7	12.0	4.9	0.6	24.7	25.6
United States	2011	1798	43.9	24.3	43.9	20.4	7.7	3.3	0.3	46.9	41.0
	2015	1418	43.2	25.9	43.2	19.7	8.2	2.2	0.7	42.3	44.2
-----											
International Avg (n=40)	2011	29545	36.3	26.3	36.3	23.6	8.5	4.3	0.9	35.4	37.2
	2015	30614	36.6	27.2	36.6	23.4	8.5	3.7	0.6	35.3	37.9
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Ontario, Canada	2011	672	26.1	30.2	26.1	27.9	10.7	3.6	1.5	25.1	27.2
	2015	652	27.0	25.5	27.0	30.8	10.3	4.6	1.7	26.6	27.4
Quebec, Canada	2011	597	35.2	23.2	35.2	24.4	12.6	4.6	0.0	35.5	34.8
	2015	395	41.5	22.7	41.5	20.7	10.1	2.2	2.9	44.6	38.1
Norway (4)	2011	450	21.8	27.8	21.8	31.9	12.4	4.2	1.9	23.7	19.7
	2015	587	26.3	32.0	26.3	26.9	6.5	5.7	2.6	25.8	26.8
Abu Dhabi, UAE	2011	601	23.9	30.9	23.9	25.3	15.4	4.0	0.5	22.5	25.3
	2015	715	24.2	34.1	24.2	23.2	13.3	4.6	0.6	26.4	22.2
Dubai, UAE	2011	873	23.1	32.7	23.1	23.7	13.3	6.3	1.0	20.8	25.2
	2015	1060	30.7	33.9	30.7	21.2	10.7	3.5	0.1	30.0	31.3
Florida, US	2011	380	41.4	29.8	41.4	19.7	7.9	1.2	0.0	38.9	44.2
	2015	288	40.4	31.9	40.4	18.6	7.3	1.4	0.4	38.9	41.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M03\_06 (M051018): Number / Reasoning      Type: MC      Key: C  
Label: Picture on the 39th sticker

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	46.6	31.4	7.0	46.6	13.1	1.1	0.7	45.0	48.3
	2015	839	47.0	32.1	6.8	47.0	12.3	1.2	0.5	44.1	49.6
Bahrain	2011	573	34.6	28.4	18.7	34.6	15.1	1.8	1.6	36.6	32.5
	2015	589	33.5	41.4	12.1	33.5	9.2	3.2	0.7	35.0	32.1
Belgium (Flemish)	2011	704	65.7	15.5	5.9	65.7	12.1	0.8	0.1	66.6	65.0
	2015	776	67.2	14.9	7.4	67.2	9.5	1.0	0.0	64.1	70.1
Chile	2011	786	33.7	38.2	10.6	33.7	12.3	3.0	2.2	33.9	33.4
	2015	675	28.0	48.5	8.8	28.0	8.7	2.3	3.7	25.7	30.3
Chinese Taipei	2011	613	72.7	13.3	4.0	72.7	9.5	0.4	0.0	74.0	71.7
	2015	606	66.6	19.5	3.9	66.6	9.3	0.6	0.0	63.2	69.5
Croatia	2011	646	46.7	33.4	5.2	46.7	8.2	6.2	0.2	45.0	48.5
	2015	565	49.5	35.0	5.1	49.5	7.8	2.7	0.0	47.4	51.5
Czech Republic	2011	663	64.2	13.9	7.0	64.2	11.0	3.2	0.7	67.3	61.3
	2015	731	61.6	15.7	6.1	61.6	11.5	4.2	0.9	64.4	58.7
Denmark	2011	566	55.3	17.3	10.6	55.3	9.6	5.2	2.1	57.5	53.1
	2015	537	57.6	15.7	9.2	57.6	9.1	4.3	4.0	57.8	57.5
England	2011	480	57.8	24.2	6.9	57.8	8.7	1.9	0.5	55.6	59.7
	2015	569	57.0	21.8	6.8	57.0	12.1	1.5	0.7	54.7	59.2
Finland	2011	665	56.0	18.1	11.6	56.0	11.4	2.7	0.1	56.6	55.5
	2015	721	50.5	20.3	11.3	50.5	12.3	5.2	0.3	59.1	42.5
Georgia	2011	678	40.8	28.7	8.2	40.8	15.4	3.9	3.1	41.4	40.2
	2015	562	41.7	32.9	8.7	41.7	12.6	1.4	2.6	40.0	43.5
Germany	2011	569	58.0	18.5	7.2	58.0	11.1	5.0	0.2	60.5	55.6
	2015	565	52.9	20.9	8.9	52.9	11.1	5.7	0.6	50.7	54.9
Hong Kong SAR	2011	575	58.1	25.5	5.1	58.1	10.3	0.9	0.0	55.1	60.8
	2015	507	65.1	16.3	5.2	65.1	12.8	0.6	0.0	68.2	63.0
Hungary	2011	730	52.4	19.4	10.1	52.4	12.2	3.8	2.1	54.9	49.9
	2015	725	55.3	23.4	8.0	55.3	10.8	2.0	0.5	56.1	54.6
Iran, Islamic Rep. of	2011	823	27.6	23.8	18.1	27.6	19.8	6.3	4.4	28.0	27.2
	2015	546	26.2	31.0	12.0	26.2	23.8	6.1	0.8	31.6	21.1
Ireland	2011	647	47.8	25.9	8.3	47.8	15.3	2.3	0.5	43.2	52.4
	2015	620	55.8	24.8	7.5	55.8	10.0	1.6	0.3	56.9	54.9
Italy	2011	605	53.6	24.2	8.3	53.6	9.8	3.1	1.0	53.0	54.2
	2015	633	50.3	30.5	8.3	50.3	8.0	1.9	1.0	48.6	51.9
Japan	2011	628	74.5	9.4	6.4	74.5	8.5	0.7	0.4	70.8	78.1
	2015	627	73.8	12.8	4.8	73.8	8.0	0.5	0.1	72.6	74.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_06 (M051018): Number / Reasoning      Type: MC      Key: C  
Label: Picture on the 39th sticker

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	46.6	26.9	10.1	46.6	11.0	3.5	1.9	41.7	51.2
	2015	676	78.3	13.5	3.4	78.3	4.4	0.4	0.0	77.3	79.4
Korea, Rep. of	2011	625	72.7	13.6	6.8	72.7	6.8	0.2	0.0	71.5	73.7
	2015	669	79.6	9.3	3.8	79.6	7.0	0.2	0.2	77.4	81.7
Kuwait	2011	579	29.8	23.5	20.2	29.8	13.2	10.0	3.4	28.9	30.8
	2015	503	25.3	38.8	10.7	25.3	11.0	10.7	3.6	27.7	23.1
Lithuania	2011	664	53.4	22.3	9.1	53.4	11.5	3.5	0.2	51.5	55.2
	2015	657	53.7	25.6	7.7	53.7	10.1	2.7	0.1	52.8	54.6
Morocco	2011	1103	31.5	26.1	18.7	31.5	9.0	9.0	5.6	31.2	31.7
	2015	718	33.8	23.0	23.0	33.8	11.7	7.1	1.4	31.4	35.9
Netherlands	2011	453	60.8	19.1	7.2	60.8	11.3	1.3	0.2	58.0	64.7
	2015	653	56.4	21.3	10.0	56.4	10.1	1.9	0.3	58.0	54.9
New Zealand	2011	786	50.2	26.9	10.0	50.2	9.7	2.2	0.9	51.5	48.9
	2015	904	49.7	28.0	9.8	49.7	9.9	1.6	0.9	47.2	52.2
Northern Ireland	2011	514	60.4	20.0	7.9	60.4	10.7	0.9	0.0	63.9	56.6
	2015	424	60.4	22.9	4.4	60.4	12.4	0.0	0.0	64.2	57.5
Oman	2011	1491	35.4	26.5	18.2	35.4	13.5	4.3	2.1	35.6	35.2
	2015	1291	44.5	29.6	12.9	44.5	10.2	2.1	0.7	46.0	42.7
Portugal	2011	572	52.2	29.8	4.1	52.2	10.9	1.8	1.2	52.1	52.3
	2015	659	54.5	25.7	4.2	54.5	11.5	2.4	1.6	53.6	55.4
Qatar	2011	585	36.6	30.9	13.5	36.6	15.8	2.1	1.1	35.2	37.9
	2015	741	32.9	38.7	12.2	32.9	12.5	2.4	1.3	31.5	34.4
Russian Federation	2011	626	61.4	19.8	8.3	61.4	7.5	2.3	0.7	62.2	60.7
	2015	706	59.9	21.9	6.6	59.9	10.0	1.3	0.3	56.0	63.6
Saudi Arabia	2011	513	36.5	35.9	16.4	36.5	9.6	1.2	0.4	34.0	39.2
	2015	628	28.0	41.5	14.4	28.0	11.7	3.0	1.4	27.4	28.6
Serbia	2011	623	49.1	28.5	6.1	49.1	10.2	4.1	2.0	45.2	53.0
	2015	581	49.6	28.0	7.8	49.6	11.8	2.3	0.6	49.8	49.5
Singapore	2011	906	64.2	24.7	5.2	64.2	5.9	0.0	0.0	65.4	63.0
	2015	929	69.3	18.6	4.6	69.3	7.3	0.2	0.0	66.9	71.5
Slovak Republic	2011	800	49.1	24.8	10.0	49.1	12.7	2.8	0.6	51.3	46.9
	2015	812	53.0	24.4	10.4	53.0	9.7	2.3	0.2	53.9	52.2
Slovenia	2011	643	54.7	20.1	7.2	54.7	14.0	2.6	1.3	50.9	58.1
	2015	623	52.1	21.7	9.1	52.1	13.9	2.9	0.2	54.0	50.5
Spain	2011	601	38.4	40.8	7.2	38.4	8.2	3.2	2.2	37.0	39.8
	2015	1113	38.8	39.6	8.3	38.8	8.6	3.6	1.0	40.1	37.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_06 (M051018): Number / Reasoning      Type: MC      Key: C  
Label: Picture on the 39th sticker

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	55.7	18.8	10.1	55.7	10.3	3.9	1.3	55.8	55.5
	2015	597	50.7	26.0	8.9	50.7	11.2	2.2	0.9	49.9	51.4
Turkey	2011	1066	36.2	46.3	7.4	36.2	8.6	0.8	0.7	35.9	36.5
	2015	910	36.0	47.3	7.7	36.0	7.6	0.9	0.4	33.4	38.6
United Arab Emirates	2011	2107	33.4	31.9	14.5	33.4	15.7	2.9	1.6	31.3	35.5
	2015	3018	32.7	39.4	10.2	32.7	13.6	3.3	0.7	32.2	33.2
United States	2011	1798	44.4	38.0	6.1	44.4	8.7	2.1	0.8	45.5	43.3
	2015	1418	48.2	34.0	6.5	48.2	8.5	1.6	1.1	49.0	47.4
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International Avg (n=40)	2011	30198	50.0	25.1	9.6	50.0	11.2	2.9	1.2	49.5	50.4
	2015	30623	50.7	26.9	8.4	50.7	10.6	2.5	0.8	50.5	50.9
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Ontario, Canada	2011	672	51.4	27.8	6.3	51.4	10.9	1.5	2.2	49.8	53.0
	2015	652	52.3	27.6	7.1	52.3	8.6	1.3	3.2	53.1	51.5
Quebec, Canada	2011	597	57.4	23.7	6.3	57.4	8.4	3.9	0.3	55.1	59.8
	2015	394	55.5	22.9	5.7	55.5	9.2	2.8	3.9	55.2	55.8
Norway (4)	2011	450	52.9	12.6	12.1	52.9	15.6	4.7	2.2	46.5	59.7
	2015	587	52.3	16.1	13.2	52.3	11.0	4.2	3.3	56.7	47.9
Abu Dhabi, UAE	2011	601	28.7	36.6	12.5	28.7	17.0	3.7	1.5	25.9	31.5
	2015	715	24.8	45.2	11.6	24.8	14.1	3.6	0.6	25.2	24.4
Dubai, UAE	2011	873	42.0	27.5	12.4	42.0	14.0	3.1	1.0	38.6	45.1
	2015	1060	46.2	34.4	6.8	46.2	10.4	2.1	0.1	46.4	46.0
Florida, US	2011	380	49.1	36.1	6.7	49.1	7.0	0.9	0.3	48.6	49.6
	2015	288	51.9	34.0	4.9	51.9	7.4	1.4	0.4	51.1	52.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M03\_07 (M051407): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Shape made of triangle & rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	59.9	59.9	11.8	13.4	11.6	2.6	0.7	57.0	62.7
	2015	839	67.5	67.5	10.4	7.5	11.5	2.3	0.8	66.0	68.9
Bahrain	2011	574	41.3	41.3	14.5	16.9	22.3	3.4	1.6	43.5	39.1
	2015	590	39.5	39.5	14.1	16.5	24.3	4.4	1.1	40.1	39.0
Belgium (Flemish)	2011	704	67.9	67.9	6.3	7.9	13.4	4.5	0.1	67.6	68.2
	2015	776	65.4	65.4	6.5	6.5	13.1	8.5	0.0	70.3	60.9
Chile	2011	786	49.2	49.2	10.1	15.0	20.7	2.3	2.6	49.5	49.0
	2015	675	48.7	48.7	9.8	15.6	20.1	2.1	3.8	50.2	47.0
Chinese Taipei	2011	613	63.0	63.0	7.3	14.7	13.8	1.2	0.0	65.8	60.5
	2015	606	69.3	69.3	5.4	12.4	9.9	3.0	0.0	70.1	68.7
Croatia	2011	646	51.5	51.5	11.4	10.0	14.2	12.6	0.3	49.0	54.0
	2015	565	56.0	56.0	10.0	12.6	13.4	7.6	0.4	58.3	53.6
Czech Republic	2011	663	67.4	67.4	7.9	9.3	8.1	6.4	0.9	70.1	64.9
	2015	731	71.9	71.9	10.7	6.5	5.8	4.2	0.9	71.1	72.8
Denmark	2011	566	60.4	60.4	7.5	7.3	12.4	9.9	2.5	61.0	59.7
	2015	537	68.8	68.8	6.2	5.8	9.1	5.6	4.4	68.2	69.5
England	2011	480	63.6	63.6	8.8	10.3	10.2	5.8	1.3	60.7	66.2
	2015	569	64.0	64.0	11.2	6.8	11.7	5.6	0.7	62.1	65.7
Finland	2011	665	53.7	53.7	14.8	9.8	13.7	7.9	0.1	50.8	56.5
	2015	721	57.1	57.1	15.2	6.0	14.1	7.3	0.3	63.4	51.1
Georgia	2011	678	47.9	47.9	9.8	11.8	16.6	10.3	3.7	52.2	43.9
	2015	562	58.5	58.5	9.6	9.9	12.7	6.7	2.6	60.7	56.3
Germany	2011	569	58.9	58.9	12.3	9.1	6.7	12.7	0.2	60.3	57.7
	2015	565	53.8	53.8	12.0	10.7	8.4	14.6	0.6	53.9	53.6
Hong Kong SAR	2011	575	93.6	93.6	2.6	1.0	2.0	0.7	0.0	93.9	93.4
	2015	507	94.6	94.6	1.6	1.9	1.6	0.3	0.0	92.5	96.0
Hungary	2011	728	48.6	48.6	14.6	14.6	8.5	11.1	2.6	51.1	46.2
	2015	725	53.3	53.3	14.3	10.9	12.0	8.8	0.6	54.0	52.7
Iran, Islamic Rep. of	2011	823	42.4	42.4	8.0	20.7	16.3	7.6	5.0	40.6	44.1
	2015	546	43.9	43.9	6.9	20.8	17.6	9.7	1.1	45.3	42.6
Ireland	2011	647	51.9	51.9	12.5	14.2	17.6	3.3	0.5	51.0	52.9
	2015	620	61.8	61.8	11.9	9.6	13.6	2.7	0.3	61.8	61.8
Italy	2011	605	60.4	60.4	10.7	11.4	11.6	4.4	1.5	60.4	60.4
	2015	633	65.7	65.7	10.0	8.9	11.5	3.0	1.0	64.4	66.9
Japan	2011	628	80.2	80.2	6.7	6.7	4.1	1.9	0.4	78.9	81.5
	2015	627	75.0	75.0	10.8	7.0	4.8	2.2	0.1	76.8	73.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_07 (M051407): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Shape made of triangle & rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	629	51.7	51.7	11.8	16.4	15.0	3.1	2.0	50.7	52.7
	2015	676	77.7	77.7	7.5	6.7	7.8	0.3	0.0	79.1	76.2
Korea, Rep. of	2011	625	78.5	78.5	3.6	6.1	11.9	0.0	0.0	79.1	77.9
	2015	669	82.1	82.1	6.1	5.6	6.0	0.0	0.2	82.7	81.6
Kuwait	2011	580	25.5	25.5	11.4	18.7	28.7	12.1	3.6	26.8	24.0
	2015	503	30.9	30.9	12.3	16.8	22.6	13.3	4.0	33.7	28.4
Lithuania	2011	664	38.3	38.3	11.4	12.0	16.9	21.0	0.3	37.7	39.0
	2015	657	48.6	48.6	11.6	9.0	17.8	12.8	0.2	48.1	49.1
Morocco	2011	1096	29.2	29.2	12.3	12.6	18.9	20.9	6.0	30.3	28.4
	2015	718	34.1	34.1	7.2	17.6	28.6	10.4	2.1	30.4	37.5
Netherlands	2011	453	54.5	54.5	16.1	11.4	9.4	8.3	0.2	55.4	53.8
	2015	651	54.8	54.8	14.9	10.4	9.8	9.7	0.5	61.5	48.6
New Zealand	2011	786	50.2	50.2	13.2	16.3	15.5	3.9	1.0	50.1	50.2
	2015	904	56.5	56.5	14.1	10.1	15.8	2.5	1.0	58.2	54.9
Northern Ireland	2011	514	59.5	59.5	8.5	11.3	16.9	3.7	0.0	61.1	57.8
	2015	424	67.7	67.7	10.7	9.0	11.6	1.0	0.0	58.8	74.4
Oman	2011	1491	38.5	38.5	12.4	16.0	23.3	7.2	2.6	40.6	36.4
	2015	1291	57.2	57.2	10.4	14.8	14.7	2.1	0.8	58.4	55.8
Portugal	2011	572	60.7	60.7	8.0	10.4	17.0	2.4	1.6	65.7	55.7
	2015	659	59.6	59.6	7.4	11.5	17.6	2.2	1.6	60.3	59.0
Qatar	2011	585	36.8	36.8	13.4	20.1	24.5	4.0	1.1	37.6	36.2
	2015	741	37.3	37.3	14.4	17.6	22.7	6.5	1.5	37.1	37.5
Russian Federation	2011	626	65.6	65.6	11.3	8.0	8.9	5.4	0.7	70.6	60.9
	2015	706	70.4	70.4	8.2	9.0	8.6	2.8	0.8	73.4	67.6
Saudi Arabia	2011	511	36.9	36.9	17.9	16.0	27.4	1.4	0.4	37.5	36.2
	2015	624	35.3	35.3	14.1	16.7	28.6	3.8	1.4	36.9	33.8
Serbia	2011	623	54.5	54.5	7.9	11.9	13.6	9.5	2.6	57.6	51.5
	2015	581	53.6	53.6	11.8	11.0	14.8	8.3	0.6	57.2	50.2
Singapore	2011	906	72.3	72.3	7.6	8.3	11.2	0.7	0.0	70.6	73.8
	2015	929	72.2	72.2	7.5	7.9	12.0	0.4	0.0	70.3	73.8
Slovak Republic	2011	800	58.3	58.3	10.0	9.7	12.5	9.0	0.6	53.9	62.6
	2015	812	61.0	61.0	11.6	10.4	11.9	5.0	0.2	62.7	59.5
Slovenia	2011	622	46.9	46.9	14.0	15.0	14.3	8.2	1.6	48.5	45.6
	2015	623	52.4	52.4	12.9	15.0	14.8	4.7	0.2	55.5	49.7
Spain	2011	601	40.9	40.9	12.7	14.9	20.0	9.2	2.3	41.7	40.2
	2015	1113	49.5	49.5	12.1	12.8	19.9	4.7	1.0	48.7	50.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_07 (M051407): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Shape made of triangle & rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	64.0	64.0	9.9	10.0	9.9	4.3	1.9	67.5	60.6
	2015	597	62.7	62.7	12.8	9.1	9.0	5.4	1.0	64.6	60.9
Turkey	2011	1066	61.1	61.1	13.1	14.0	10.2	0.9	0.7	61.5	60.7
	2015	910	61.4	61.4	12.6	11.6	13.5	0.4	0.4	63.8	59.1
United Arab Emirates	2011	2107	39.2	39.2	13.8	16.0	23.8	5.5	1.7	40.4	38.1
	2015	3018	45.6	45.6	14.6	14.3	20.7	4.2	0.7	49.3	42.0
United States	2011	1798	66.7	66.7	9.4	10.8	10.6	1.7	0.9	66.3	67.1
	2015	1418	66.3	66.3	9.1	10.8	10.5	1.9	1.3	63.8	69.1
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International Avg (n=40)	2011	30167	54.8	54.8	10.7	12.3	14.6	6.3	1.4	55.4	54.2
	2015	30618	58.8	58.8	10.5	10.8	13.9	5.0	1.0	59.6	58.0
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Ontario, Canada	2011	672	66.8	66.8	7.3	10.1	10.9	2.4	2.5	66.0	67.7
	2015	646	67.6	67.6	10.0	8.1	8.4	2.5	3.3	65.3	69.8
Quebec, Canada	2011	597	66.7	66.7	6.6	8.9	12.3	4.6	0.8	69.3	64.0
	2015	391	67.7	67.7	6.8	6.8	10.9	3.4	4.5	73.0	62.1
Norway (4)	2011	450	50.8	50.8	14.0	7.3	13.8	11.6	2.5	49.4	52.4
	2015	587	55.6	55.6	13.3	10.0	9.8	7.5	3.8	54.4	56.7
Abu Dhabi, UAE	2011	601	35.9	35.9	12.3	19.4	24.8	6.1	1.5	35.5	36.3
	2015	715	40.2	40.2	15.9	15.4	23.9	4.0	0.6	49.3	31.7
Dubai, UAE	2011	873	47.1	47.1	14.1	13.3	20.5	3.8	1.2	51.7	42.9
	2015	1060	58.2	58.2	12.3	11.3	14.6	3.5	0.1	59.4	57.1
Florida, US	2011	380	68.2	68.2	8.5	10.2	11.2	1.3	0.5	67.7	68.9
	2015	288	70.7	70.7	10.6	9.5	8.0	0.8	0.4	73.6	67.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M03\_08 (M051410): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: Statements about the triangles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	40.6	20.1	23.0	12.9	40.6	2.5	0.9	43.5	37.8
	2015	839	43.9	14.7	25.2	9.7	43.9	5.6	0.9	43.6	44.2
Bahrain	2011	574	31.5	16.9	35.0	12.3	31.5	2.4	1.9	31.6	31.4
	2015	590	35.2	21.6	25.4	13.5	35.2	2.7	1.6	42.1	28.5
Belgium (Flemish)	2011	704	48.7	14.5	17.5	4.0	48.7	15.1	0.2	47.0	50.4
	2015	776	50.9	12.8	16.2	5.1	50.9	14.8	0.1	50.5	51.3
Chile	2011	786	36.1	22.7	24.6	10.9	36.1	2.4	3.4	41.5	31.1
	2015	675	32.4	23.9	25.2	10.0	32.4	4.3	4.1	31.8	33.2
Chinese Taipei	2011	613	59.1	19.8	13.4	5.6	59.1	2.2	0.0	62.5	56.1
	2015	606	66.5	15.0	8.6	6.2	66.5	3.8	0.0	68.2	65.0
Croatia	2011	646	66.6	11.6	14.6	2.9	66.6	4.0	0.3	67.6	65.5
	2015	565	61.5	12.5	15.5	4.8	61.5	5.2	0.4	65.0	58.1
Czech Republic	2011	663	40.2	16.7	25.4	12.5	40.2	4.2	1.1	43.0	37.5
	2015	731	40.9	16.2	24.3	14.6	40.9	3.1	0.9	41.2	40.6
Denmark	2011	566	58.4	10.0	16.7	7.2	58.4	5.0	2.7	59.0	57.9
	2015	537	58.8	7.7	18.0	6.0	58.8	4.3	5.2	61.6	55.9
England	2011	480	48.9	16.3	18.6	5.4	48.9	9.3	1.4	48.2	49.5
	2015	569	51.3	16.8	11.6	6.8	51.3	12.2	1.4	54.0	48.8
Finland	2011	665	57.3	13.5	17.0	8.4	57.3	3.5	0.2	58.7	56.1
	2015	721	53.8	15.9	14.0	10.8	53.8	5.2	0.3	56.2	51.6
Georgia	2011	679	26.4	23.0	32.9	8.5	26.4	5.1	4.0	29.8	23.4
	2015	562	29.3	22.6	35.5	7.0	29.3	2.6	2.9	35.8	22.9
Germany	2011	569	44.8	19.6	14.7	9.0	44.8	11.7	0.2	46.0	43.6
	2015	565	40.9	21.5	13.7	6.9	40.9	16.5	0.6	38.8	42.8
Hong Kong SAR	2011	575	63.4	14.7	10.8	9.5	63.4	1.7	0.0	63.6	63.1
	2015	507	71.4	13.1	6.8	7.3	71.4	1.4	0.0	74.0	69.6
Hungary	2011	728	52.0	14.4	9.8	6.0	52.0	14.8	3.0	55.2	48.8
	2015	725	51.6	13.0	11.8	7.2	51.6	15.9	0.6	53.4	49.7
Iran, Islamic Rep. of	2011	823	53.9	11.2	15.0	7.4	53.9	5.5	6.9	56.0	51.9
	2015	546	49.0	11.2	26.1	8.7	49.0	3.7	1.5	55.8	42.5
Ireland	2011	647	48.2	16.8	21.9	9.3	48.2	3.2	0.7	49.1	47.3
	2015	620	56.7	15.7	18.2	6.9	56.7	2.2	0.3	55.0	58.1
Italy	2011	605	48.0	16.4	17.6	6.3	48.0	9.3	2.4	48.5	47.5
	2015	633	55.2	14.3	16.6	6.0	55.2	6.6	1.3	54.2	56.2
Japan	2011	628	67.3	11.5	8.9	2.5	67.3	9.2	0.7	66.1	68.5
	2015	627	72.7	10.1	7.5	1.5	72.7	8.0	0.1	74.8	70.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M03\_08 (M051410): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: Statements about the triangles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	47.3	13.8	22.7	9.0	47.3	5.2	2.1	51.0	43.7
	2015	676	60.1	13.0	20.9	5.3	60.1	0.7	0.0	61.3	58.8
Korea, Rep. of	2011	625	84.5	6.4	5.7	2.2	84.5	1.1	0.0	83.6	85.4
	2015	669	82.6	9.4	3.9	2.3	82.6	1.6	0.2	87.1	78.4
Kuwait	2011	582	25.9	20.3	25.9	17.3	25.9	7.0	3.6	28.8	22.4
	2015	503	18.4	21.4	25.6	14.1	18.4	15.8	4.6	19.1	18.0
Lithuania	2011	664	42.0	16.2	27.0	11.4	42.0	2.9	0.5	46.2	37.8
	2015	657	55.1	13.3	18.0	9.5	55.1	3.8	0.2	58.5	51.9
Morocco	2011	1108	22.7	21.3	25.9	12.8	22.7	11.2	6.0	23.4	22.2
	2015	718	43.7	11.9	23.7	12.7	43.7	5.6	2.4	47.8	39.9
Netherlands	2011	453	23.5	25.4	28.6	14.5	23.5	7.7	0.2	23.5	23.7
	2015	649	20.5	27.9	28.0	13.7	20.5	9.3	0.6	22.1	19.1
New Zealand	2011	786	18.4	22.8	36.2	17.5	18.4	3.9	1.1	17.6	19.2
	2015	904	21.6	22.7	32.0	17.0	21.6	5.6	1.0	20.7	22.5
Northern Ireland	2011	514	55.5	13.8	14.2	6.7	55.5	9.7	0.0	50.4	61.3
	2015	421	58.4	12.7	13.2	6.0	58.4	9.7	0.0	55.7	60.6
Oman	2011	1491	33.5	15.0	31.9	11.8	33.5	4.7	3.2	36.6	30.3
	2015	1283	35.3	16.4	32.3	12.1	35.3	3.0	1.0	38.8	31.3
Portugal	2011	572	46.2	14.5	22.1	4.9	46.2	10.4	1.9	46.6	45.9
	2015	659	50.3	12.8	19.6	5.4	50.3	10.1	1.7	49.9	50.7
Qatar	2011	585	26.2	22.0	32.8	13.5	26.2	4.2	1.2	27.7	24.8
	2015	740	27.0	20.3	32.2	12.3	27.0	6.2	2.0	30.6	23.1
Russian Federation	2011	626	59.8	11.5	18.6	6.2	59.8	3.0	0.7	65.1	54.9
	2015	706	65.0	7.5	15.4	5.0	65.0	6.1	0.9	66.0	64.0
Saudi Arabia	2011	512	35.1	20.4	27.3	13.6	35.1	3.0	0.6	40.4	29.7
	2015	626	33.3	24.0	26.5	11.1	33.3	3.8	1.4	38.4	28.4
Serbia	2011	623	41.1	18.0	24.2	7.7	41.1	5.2	3.9	44.3	37.9
	2015	581	39.6	20.9	27.9	7.6	39.6	3.2	0.7	43.3	36.3
Singapore	2011	906	72.0	7.5	14.1	5.0	72.0	1.2	0.2	75.2	69.0
	2015	929	72.3	10.0	11.8	5.0	72.3	0.8	0.0	73.9	70.9
Slovak Republic	2011	800	33.6	16.0	34.8	11.2	33.6	3.4	1.1	33.6	33.6
	2015	812	27.8	19.9	32.0	16.4	27.8	3.6	0.3	26.5	28.9
Slovenia	2011	635	30.1	16.9	26.4	20.2	30.1	4.4	1.9	35.6	25.4
	2015	623	40.7	12.6	26.2	17.4	40.7	2.7	0.3	43.5	38.4
Spain	2011	601	35.8	19.2	23.8	8.8	35.8	9.6	2.9	37.9	33.7
	2015	1113	44.8	20.0	20.8	6.5	44.8	6.7	1.2	43.1	46.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_08 (M051410): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: Statements about the triangles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	27.0	25.4	26.7	13.5	27.0	5.0	2.5	27.0	26.9
	2015	597	38.2	23.2	15.7	12.5	38.2	8.4	1.9	38.6	37.9
Turkey	2011	1066	51.3	15.2	24.8	7.2	51.3	0.7	0.7	55.0	47.7
	2015	910	54.9	12.7	23.3	7.6	54.9	1.0	0.5	56.4	53.5
United Arab Emirates	2011	2107	24.7	18.2	36.5	14.0	24.7	4.9	1.7	25.9	23.6
	2015	3018	30.8	17.6	32.0	13.3	30.8	5.4	1.0	31.9	29.8
United States	2011	1798	55.6	14.0	20.6	6.5	55.6	2.2	1.1	54.8	56.4
	2015	1418	57.4	13.0	18.9	5.6	57.4	3.5	1.7	56.8	57.9
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International Avg (n=40)	2011	30197	44.6	16.6	22.2	9.4	44.6	5.5	1.7	46.2	43.1
	2015	30606	47.5	16.0	20.5	8.9	47.5	5.9	1.1	49.2	45.9
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Ontario, Canada	2011	672	44.5	18.6	21.4	8.3	44.5	4.8	2.5	44.9	44.1
	2015	638	45.1	19.1	18.1	11.5	45.1	2.3	3.9	45.0	45.1
Quebec, Canada	2011	597	49.2	15.1	19.7	6.7	49.2	8.4	0.9	50.5	47.9
	2015	371	54.3	16.9	15.3	6.3	54.3	2.1	5.1	58.2	50.0
Norway (4)	2011	450	31.0	17.2	30.8	12.7	31.0	4.8	3.5	28.0	34.3
	2015	587	33.7	15.7	28.9	12.9	33.7	4.1	4.8	32.8	34.5
Abu Dhabi, UAE	2011	601	20.6	18.0	39.6	15.4	20.6	5.0	1.5	20.1	21.1
	2015	715	25.8	17.7	34.6	14.6	25.8	6.4	0.8	26.7	25.1
Dubai, UAE	2011	873	26.4	15.5	36.9	12.9	26.4	6.9	1.4	28.6	24.3
	2015	1060	43.2	15.4	24.4	11.4	43.2	5.0	0.6	42.9	43.4
Florida, US	2011	380	62.4	11.3	17.9	6.1	62.4	1.4	1.0	61.6	63.2
	2015	288	61.4	11.1	20.2	5.1	61.4	1.9	0.4	60.1	62.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M03\_09 (M051059): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Reflection of the given shape

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	81.4	15.8	1.9	0.9	81.4	80.4	82.5
	2015	839	83.1	13.0	2.5	1.3	83.1	82.2	84.0
Bahrain	2011	574	49.6	44.2	4.3	1.9	49.6	51.3	47.8
	2015	590	59.7	34.5	4.0	1.8	59.7	64.5	55.0
Belgium (Flemish)	2011	704	86.1	12.2	1.3	0.4	86.1	86.3	85.9
	2015	776	91.0	7.5	1.3	0.1	91.0	91.4	90.6
Chile	2011	786	66.4	24.5	4.8	4.3	66.4	63.2	69.5
	2015	675	75.3	13.0	6.6	5.1	75.3	73.2	77.4
Chinese Taipei	2011	613	72.6	26.1	1.3	0.0	72.6	72.6	72.6
	2015	606	75.8	22.6	1.5	0.0	75.8	73.8	77.6
Croatia	2011	646	47.4	43.4	8.9	0.3	47.4	45.1	49.6
	2015	565	56.7	38.5	4.2	0.6	56.7	50.6	62.8
Czech Republic	2011	663	81.0	14.2	3.5	1.4	81.0	84.8	77.3
	2015	731	82.1	14.7	2.3	1.0	82.1	84.1	80.1
Denmark	2011	566	93.6	2.7	1.1	2.7	93.6	94.4	92.8
	2015	537	91.3	1.7	0.8	6.2	91.3	92.1	90.5
England	2011	480	81.3	16.6	0.5	1.6	81.3	82.2	80.6
	2015	569	89.6	8.3	0.7	1.4	89.6	91.0	88.4
Finland	2011	665	92.6	6.2	0.5	0.7	92.6	92.8	92.4
	2015	721	91.2	6.1	2.5	0.3	91.2	95.1	87.5
Georgia	2011	679	38.5	44.8	11.9	4.8	38.5	39.5	37.7
	2015	562	47.5	42.0	7.1	3.4	47.5	45.0	50.0
Germany	2011	569	91.4	6.6	1.8	0.2	91.4	91.6	91.1
	2015	565	90.8	7.2	1.2	0.8	90.8	91.0	90.5
Hong Kong SAR	2011	575	94.2	5.4	0.4	0.0	94.2	94.7	93.8
	2015	507	94.5	5.3	0.2	0.0	94.5	94.7	94.3
Hungary	2011	730	84.7	12.0	0.3	3.1	84.7	85.9	83.5
	2015	725	88.7	10.5	0.2	0.6	88.7	90.1	87.3
Iran, Islamic Rep. of	2011	823	41.7	39.8	10.9	7.7	41.7	40.0	43.2
	2015	546	50.6	37.0	10.4	1.9	50.6	50.8	50.5
Ireland	2011	647	75.7	23.2	0.4	0.7	75.7	76.1	75.4
	2015	620	86.6	12.4	0.6	0.5	86.6	87.9	85.5
Italy	2011	605	80.7	14.8	1.8	2.6	80.7	78.3	82.9
	2015	633	89.5	8.7	0.4	1.4	89.5	88.3	90.6
Japan	2011	628	90.9	7.6	0.7	0.8	90.9	90.2	91.7
	2015	627	93.1	6.4	0.3	0.1	93.1	94.8	91.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_09 (M051059): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Reflection of the given shape

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	65.1	24.5	8.0	2.4	65.1	64.1	66.1
	2015	676	83.5	13.3	3.1	0.1	83.5	85.0	81.9
Korea, Rep. of	2011	625	94.4	5.3	0.3	0.0	94.4	93.9	94.9
	2015	669	96.6	3.0	0.0	0.4	96.6	96.8	96.3
Kuwait	2011	588	31.9	58.4	5.8	3.8	31.9	40.2	21.8
	2015	503	35.3	46.8	11.5	6.4	35.3	39.1	31.6
Lithuania	2011	664	87.9	10.4	0.9	0.7	87.9	86.8	89.1
	2015	657	90.9	8.2	0.7	0.2	90.9	92.6	89.2
Morocco	2011	1117	53.2	31.9	8.5	6.5	53.2	48.8	56.9
	2015	718	64.0	30.8	2.4	2.8	64.0	60.9	66.8
Netherlands	2011	453	88.1	10.5	0.9	0.4	88.1	88.0	88.3
	2015	653	86.5	11.7	0.9	1.0	86.5	88.2	84.9
New Zealand	2011	786	77.0	18.7	3.2	1.1	77.0	74.9	79.0
	2015	904	81.2	12.9	4.9	1.0	81.2	81.4	81.0
Northern Ireland	2011	514	81.4	17.8	0.9	0.0	81.4	84.7	77.7
	2015	431	90.1	9.0	0.7	0.2	90.1	87.0	92.5
Oman	2011	1491	40.2	49.5	6.9	3.4	40.2	39.9	40.6
	2015	1287	58.3	37.7	2.8	1.2	58.3	61.3	54.9
Portugal	2011	572	88.9	8.5	0.7	1.9	88.9	88.9	89.0
	2015	659	89.5	8.2	0.1	2.2	89.5	87.1	91.9
Qatar	2011	585	65.6	29.3	3.6	1.5	65.6	66.9	64.5
	2015	741	62.0	32.2	3.4	2.3	62.0	63.3	60.7
Russian Federation	2011	626	67.8	23.4	8.0	0.9	67.8	72.6	63.3
	2015	706	75.6	16.6	6.9	0.9	75.6	74.8	76.4
Saudi Arabia	2011	513	47.5	46.9	4.4	1.1	47.5	57.6	37.0
	2015	631	35.6	48.2	13.5	2.7	35.6	46.9	24.8
Serbia	2011	623	48.9	42.4	4.8	3.9	48.9	49.3	48.5
	2015	581	63.4	29.6	6.2	0.8	63.4	66.0	61.0
Singapore	2011	906	92.8	6.3	0.8	0.2	92.8	93.9	91.8
	2015	929	93.5	5.9	0.6	0.0	93.5	93.4	93.6
Slovak Republic	2011	800	63.8	32.8	1.9	1.6	63.8	58.8	68.8
	2015	812	74.2	23.5	2.0	0.3	74.2	75.3	73.3
Slovenia	2011	644	88.6	7.9	0.9	2.7	88.6	89.0	88.2
	2015	623	93.6	5.3	0.6	0.5	93.6	94.6	92.7
Spain	2011	601	71.0	23.8	2.0	3.3	71.0	69.0	72.9
	2015	1113	78.1	19.9	0.4	1.6	78.1	80.4	76.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_09 (M051059): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Reflection of the given shape

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	70.0	24.8	2.3	2.8	70.0	68.5	71.5
	2015	597	85.8	11.0	1.2	2.1	85.8	88.1	83.5
Turkey	2011	1066	47.0	46.8	5.3	0.9	47.0	45.3	48.7
	2015	910	62.6	34.6	2.1	0.8	62.6	63.6	61.7
United Arab Emirates	2011	2107	50.6	41.5	6.0	1.8	50.6	52.8	48.5
	2015	3018	62.4	32.3	4.1	1.2	62.4	67.3	57.9
United States	2011	1798	74.0	23.1	1.7	1.2	74.0	72.7	75.2
	2015	1418	73.0	23.6	1.3	2.1	73.0	69.9	76.5
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International Avg (n=40)	2011	30224	71.1	23.6	3.3	1.9	71.1	71.4	70.8
	2015	30630	76.8	18.8	2.9	1.4	76.8	77.6	76.1
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Ontario, Canada	2011	672	81.6	13.7	1.0	3.7	81.6	79.8	83.5
	2015	652	82.0	12.5	1.4	4.2	82.0	82.6	81.3
Quebec, Canada	2011	597	87.0	9.2	2.7	1.2	87.0	86.7	87.4
	2015	395	86.7	7.2	0.9	5.1	86.7	90.5	82.8
Norway (4)	2011	450	86.4	8.5	1.6	3.5	86.4	87.7	85.0
	2015	587	86.4	6.8	1.3	5.5	86.4	85.7	87.1
Abu Dhabi, UAE	2011	601	46.0	45.9	6.6	1.6	46.0	50.1	41.8
	2015	715	58.5	36.6	3.7	1.2	58.5	69.0	48.5
Dubai, UAE	2011	873	61.5	32.8	4.0	1.8	61.5	63.8	59.4
	2015	1060	76.7	20.6	2.1	0.6	76.7	78.6	74.8
Florida, US	2011	380	82.4	15.3	1.3	1.0	82.4	82.8	81.9
	2015	288	74.2	25.5	0.0	0.4	74.2	73.5	74.9
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_10 (M051093): Geometric Shapes and Measures / Reasoning      Type: MC      Key: B  
Label: Perimeter of the given shape

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	45.2	29.2	45.2	13.7	8.6	2.4	1.0	40.2	50.1
	2015	839	45.7	26.4	45.7	13.5	9.2	4.0	1.3	42.5	48.6
Bahrain	2011	574	27.4	34.4	27.4	12.2	19.5	3.8	2.7	24.9	30.0
	2015	590	24.0	36.4	24.0	16.6	18.3	2.9	1.8	22.1	25.9
Belgium (Flemish)	2011	704	35.9	40.5	35.9	13.9	6.7	2.6	0.4	33.9	37.9
	2015	776	41.2	39.2	41.2	11.3	5.1	2.8	0.4	39.7	42.6
Chile	2011	786	27.4	29.9	27.4	16.5	17.3	4.4	4.5	24.0	30.6
	2015	667	31.1	32.7	31.1	12.5	14.7	4.3	4.8	25.9	36.6
Chinese Taipei	2011	613	60.9	13.6	60.9	10.1	14.5	1.0	0.0	58.8	62.7
	2015	606	50.9	12.2	50.9	13.7	22.4	0.9	0.0	48.7	52.8
Croatia	2011	646	34.2	21.5	34.2	16.7	17.3	9.4	0.9	35.1	33.4
	2015	565	34.4	30.6	34.4	13.0	16.1	5.3	0.6	28.3	40.4
Czech Republic	2011	663	40.6	26.6	40.6	15.1	9.7	6.5	1.4	38.5	42.6
	2015	731	49.4	22.5	49.4	12.9	7.9	6.0	1.3	47.1	51.7
Denmark	2011	566	55.0	17.7	55.0	11.1	5.3	8.1	2.8	55.8	54.2
	2015	537	57.4	15.0	57.4	9.9	6.9	4.5	6.4	55.6	59.2
England	2011	480	46.9	22.2	46.9	14.5	10.7	4.1	1.6	45.1	48.5
	2015	569	45.8	25.1	45.8	15.8	10.0	1.9	1.4	50.2	41.9
Finland	2011	665	59.3	17.9	59.3	12.7	4.7	4.8	0.7	57.6	60.9
	2015	721	52.3	23.4	52.3	14.1	5.9	4.0	0.3	53.3	51.4
Georgia	2011	679	34.9	25.5	34.9	13.3	14.2	7.1	5.0	38.5	31.6
	2015	562	34.9	30.0	34.9	12.7	12.2	6.6	3.6	35.4	34.4
Germany	2011	569	56.1	22.1	56.1	10.0	6.0	5.6	0.2	54.3	57.8
	2015	565	51.9	23.5	51.9	13.3	5.5	4.7	1.1	52.5	51.5
Hong Kong SAR	2011	575	56.7	14.0	56.7	11.6	16.8	0.8	0.0	58.0	55.6
	2015	507	67.2	8.4	67.2	11.1	13.0	0.3	0.0	66.8	67.4
Hungary	2011	730	42.9	24.6	42.9	13.7	11.7	3.9	3.1	44.8	41.0
	2015	725	46.9	27.2	46.9	10.3	13.0	2.0	0.6	45.5	48.3
Iran, Islamic Rep. of	2011	823	23.0	29.7	23.0	14.8	18.8	5.4	8.3	23.7	22.5
	2015	546	29.3	30.8	29.3	12.2	18.1	7.5	2.1	31.2	27.6
Ireland	2011	647	45.0	28.0	45.0	14.2	10.0	2.0	0.7	44.2	45.9
	2015	620	49.7	24.3	49.7	16.0	8.8	0.7	0.5	44.3	54.3
Italy	2011	605	42.9	24.0	42.9	13.3	12.1	5.0	2.6	38.6	46.8
	2015	633	50.4	22.7	50.4	11.8	9.2	4.2	1.7	44.5	55.9
Japan	2011	628	58.6	15.0	58.6	14.6	9.6	1.4	0.8	54.1	63.2
	2015	627	64.5	13.5	64.5	12.2	8.8	0.8	0.1	64.4	64.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_10 (M051093): Geometric Shapes and Measures / Reasoning Type: MC Key: B  
Label: Perimeter of the given shape

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	40.3	21.4	40.3	13.5	16.8	4.9	3.1	39.9	40.6
	2015	676	55.2	16.8	55.2	10.9	14.8	2.1	0.1	55.6	54.8
Korea, Rep. of	2011	625	63.2	13.1	63.2	9.7	13.0	1.0	0.0	64.9	61.6
	2015	669	71.3	12.1	71.3	10.5	5.7	0.0	0.4	70.5	72.1
Kuwait	2011	580	20.1	25.6	20.1	16.5	26.5	7.6	3.8	15.3	26.0
	2015	502	21.0	34.5	21.0	10.1	17.0	10.6	6.8	16.2	26.5
Lithuania	2011	664	40.4	24.2	40.4	19.6	12.4	2.8	0.7	39.8	41.0
	2015	657	42.3	17.7	42.3	19.5	15.6	4.7	0.2	43.2	41.3
Morocco	2011	1099	30.8	20.2	30.8	13.4	21.8	6.6	7.3	34.7	27.5
	2015	718	23.7	24.8	23.7	16.7	26.7	5.3	2.8	24.8	22.7
Netherlands	2011	453	61.8	20.7	61.8	9.9	5.9	1.3	0.4	60.2	64.2
	2015	653	57.4	17.7	57.4	14.4	6.7	2.9	1.0	54.3	60.2
New Zealand	2011	786	35.5	32.9	35.5	14.6	12.5	3.2	1.3	31.2	39.8
	2015	904	41.2	28.4	41.2	13.0	11.1	5.3	1.0	36.1	46.0
Northern Ireland	2011	514	49.0	21.2	49.0	18.8	8.5	2.5	0.0	46.0	52.2
	2015	424	53.7	23.9	53.7	12.5	9.9	0.0	0.0	51.8	55.1
Oman	2011	1491	24.5	26.0	24.5	15.2	25.1	5.4	3.9	23.7	25.3
	2015	1283	27.1	30.5	27.1	17.9	20.4	2.9	1.3	25.2	29.3
Portugal	2011	572	52.6	21.4	52.6	10.9	10.1	3.1	1.9	50.1	55.1
	2015	659	48.2	25.5	48.2	11.8	8.6	3.7	2.3	48.8	47.6
Qatar	2011	585	28.2	35.7	28.2	11.3	20.1	3.1	1.6	27.8	28.6
	2015	741	27.8	37.9	27.8	11.3	15.9	4.6	2.4	22.2	33.8
Russian Federation	2011	626	41.0	25.9	41.0	11.7	16.8	3.0	1.6	38.3	43.6
	2015	706	45.4	21.2	45.4	12.3	16.7	3.2	1.2	45.0	45.8
Saudi Arabia	2011	512	23.6	33.3	23.6	15.0	22.8	4.1	1.1	21.1	26.2
	2015	628	25.7	30.9	25.7	16.5	19.8	3.1	4.0	25.6	25.8
Serbia	2011	623	42.3	14.9	42.3	18.8	13.4	6.5	4.0	39.9	44.8
	2015	581	38.0	19.7	38.0	17.4	16.2	7.2	1.5	37.9	38.1
Singapore	2011	906	66.8	15.2	66.8	10.1	6.9	0.9	0.2	69.3	64.4
	2015	929	69.8	15.5	69.8	9.4	4.3	0.9	0.0	71.4	68.5
Slovak Republic	2011	800	43.6	23.6	43.6	13.0	14.2	3.8	1.8	41.6	45.7
	2015	812	45.6	26.9	45.6	15.0	9.8	2.2	0.5	44.7	46.4
Slovenia	2011	643	37.5	29.2	37.5	9.7	12.2	8.7	2.7	34.9	39.7
	2015	623	36.9	38.1	36.9	11.3	8.1	5.0	0.6	36.2	37.4
Spain	2011	601	28.7	33.9	28.7	12.4	14.4	7.4	3.3	27.4	29.9
	2015	1113	33.3	36.6	33.3	15.1	9.7	3.7	1.6	28.1	38.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_10 (M051093): Geometric Shapes and Measures / Reasoning      Type: MC      Key: B  
Label: Perimeter of the given shape

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	49.9	22.9	49.9	12.3	6.7	5.4	2.8	48.9	50.9
	2015	597	53.4	23.0	53.4	10.6	6.9	3.7	2.5	50.3	56.3
Turkey	2011	1066	36.7	25.7	36.7	17.6	17.1	1.8	1.1	36.9	36.5
	2015	910	37.9	27.9	37.9	17.2	14.7	1.5	0.8	33.3	42.5
United Arab Emirates	2011	2107	30.6	30.0	30.6	13.1	19.5	4.7	2.1	28.1	33.0
	2015	3018	33.0	32.2	33.0	12.0	18.1	3.3	1.4	29.7	36.2
United States	2011	1798	43.3	29.4	43.3	13.4	10.0	2.7	1.2	42.3	44.3
	2015	1418	43.0	29.6	43.0	12.2	10.8	2.2	2.2	40.2	46.0
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International Avg (n=40)	2011	30196	42.1	24.6	42.1	13.6	13.5	4.2	2.1	40.8	43.4
	2015	30607	43.9	25.4	43.9	13.3	12.3	3.5	1.6	42.2	45.6
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Ontario, Canada	2011	672	44.5	28.7	44.5	12.3	8.2	2.7	3.7	45.0	43.9
	2015	652	41.5	29.0	41.5	15.1	7.2	2.9	4.4	38.3	44.5
Quebec, Canada	2011	597	49.6	27.3	49.6	10.8	7.3	3.4	1.5	45.6	54.0
	2015	395	48.4	27.3	48.4	7.3	8.5	3.2	5.3	49.7	47.0
Norway (4)	2011	450	51.6	23.6	51.6	11.3	5.3	3.8	4.4	49.3	54.1
	2015	587	49.2	20.9	49.2	14.3	5.9	4.2	5.6	49.3	49.1
Abu Dhabi, UAE	2011	601	31.5	31.1	31.5	11.1	20.0	4.8	1.6	28.5	34.5
	2015	715	30.5	35.4	30.5	12.1	17.9	2.7	1.4	28.1	32.8
Dubai, UAE	2011	873	32.0	29.2	32.0	15.1	16.9	4.9	1.9	31.8	32.3
	2015	1060	43.7	28.4	43.7	12.9	12.4	2.0	0.7	39.0	48.3
Florida, US	2011	380	42.8	21.1	42.8	16.7	17.6	1.0	1.0	42.0	43.6
	2015	288	34.6	29.0	34.6	18.0	17.1	1.0	0.4	31.0	38.3
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.



M03\_l1 (M051134): Data Display / Applying Type: CR 1 Point  
Label: Months Peter paid less for phone

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	39.0	6.6	50.0	3.2	1.2	39.0	40.2	37.9
	2015	839	42.3	6.8	46.6	2.6	1.6	42.3	43.5	41.2
Bahrain	2011	574	15.0	7.6	67.3	6.8	3.3	15.0	14.0	16.1
	2015	590	13.7	15.7	62.7	5.6	2.3	13.7	16.6	10.9
Belgium (Flemish)	2011	704	53.6	8.2	33.7	3.0	1.4	53.6	56.9	50.5
	2015	776	46.1	8.0	42.2	2.9	0.8	46.1	47.2	45.1
Chile	2011	786	23.6	2.4	61.2	6.9	5.9	23.6	22.9	24.3
	2015	667	17.5	3.1	62.9	11.1	5.4	17.5	17.4	17.6
Chinese Taipei	2011	613	61.8	11.9	24.1	2.2	0.0	61.8	64.0	59.8
	2015	606	61.1	9.4	27.5	1.9	0.1	61.1	62.5	60.0
Croatia	2011	646	42.8	3.0	39.0	13.1	2.1	42.8	43.9	41.6
	2015	565	40.1	3.1	49.1	6.1	1.6	40.1	38.4	41.7
Czech Republic	2011	663	45.1	10.6	29.3	11.7	3.2	45.1	44.6	45.7
	2015	731	57.0	6.3	29.0	5.5	2.2	57.0	57.2	56.8
Denmark	2011	566	38.4	8.5	42.2	5.9	5.0	38.4	38.4	38.4
	2015	537	40.3	7.5	39.3	5.1	7.8	40.3	42.5	38.1
England	2011	480	48.9	4.1	40.2	3.3	3.4	48.9	49.9	48.1
	2015	569	50.1	6.7	39.7	1.8	1.8	50.1	51.9	48.4
Finland	2011	665	49.6	14.0	29.9	5.6	1.0	49.6	49.1	50.0
	2015	721	51.5	6.5	37.0	4.6	0.5	51.5	54.7	48.4
Georgia	2011	679	19.8	4.6	51.8	17.8	6.0	19.8	18.2	21.3
	2015	562	20.0	4.8	58.6	11.8	4.9	20.0	20.0	20.0
Germany	2011	569	51.7	10.3	30.5	6.4	1.1	51.7	54.0	49.4
	2015	565	47.3	10.9	34.6	5.1	2.1	47.3	48.3	46.6
Hong Kong SAR	2011	575	50.9	13.1	34.1	1.9	0.0	50.9	49.7	52.0
	2015	507	58.9	12.6	27.7	0.8	0.0	58.9	55.8	61.0
Hungary	2011	729	43.9	6.5	40.9	4.3	4.4	43.9	45.2	42.6
	2015	725	42.9	9.5	42.5	4.3	0.8	42.9	43.3	42.5
Iran, Islamic Rep. of	2011	823	9.1	3.0	61.7	16.9	9.2	9.1	9.0	9.2
	2015	546	10.5	4.6	73.6	7.3	4.0	10.5	8.6	12.3
Ireland	2011	647	38.8	8.7	48.3	3.1	1.2	38.8	35.2	42.3
	2015	620	48.8	5.9	43.0	1.7	0.6	48.8	45.9	51.3
Italy	2011	605	34.4	5.4	49.8	6.7	3.6	34.4	35.0	34.0
	2015	633	41.9	4.5	46.7	4.3	2.6	41.9	38.2	45.3
Japan	2011	628	65.5	3.6	28.0	1.8	1.1	65.5	63.3	67.7
	2015	627	65.7	1.6	31.2	1.4	0.1	65.7	67.0	64.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_l1 (M051134): Data Display / Applying Type: CR 1 Point  
Label: Months Peter paid less for phone

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	32.7	9.3	44.2	10.0	3.9	32.7	35.7	29.8
	2015	676	58.6	4.0	33.5	3.8	0.1	58.6	62.3	54.8
Korea, Rep. of	2011	625	75.0	1.9	22.3	0.5	0.3	75.0	77.3	73.0
	2015	669	77.0	2.0	19.5	1.0	0.4	77.0	80.6	73.6
Kuwait	2011	0	.	.	.	.	.	.	.	.
	2015	503	7.0	6.3	58.0	19.8	8.9	7.0	7.4	6.7
Lithuania	2011	664	46.5	10.3	36.6	5.5	1.1	46.5	49.7	43.4
	2015	657	47.4	9.5	36.6	5.9	0.7	47.4	49.4	45.4
Morocco	2011	1118	12.8	5.5	48.9	24.0	8.8	12.8	15.1	10.8
	2015	717	8.8	6.1	70.9	10.3	3.8	8.8	9.3	8.3
Netherlands	2011	453	62.5	11.2	25.0	0.9	0.4	62.5	65.5	59.2
	2015	653	53.0	8.8	32.9	3.2	2.2	53.0	59.8	46.6
New Zealand	2011	786	31.4	8.8	54.9	3.3	1.6	31.4	32.3	30.6
	2015	904	35.7	5.9	53.1	3.5	1.8	35.7	36.7	34.8
Northern Ireland	2011	514	60.0	5.4	32.2	2.0	0.4	60.0	64.3	55.3
	2015	431	56.4	4.9	37.4	0.9	0.4	56.4	57.0	55.9
Oman	2011	1491	6.5	3.4	74.5	10.2	5.4	6.5	7.2	5.8
	2015	1292	7.3	5.4	80.0	5.0	2.4	7.3	8.0	6.5
Portugal	2011	572	49.9	4.3	39.9	3.4	2.5	49.9	48.2	51.5
	2015	659	46.4	4.5	40.5	4.8	3.7	46.4	47.8	45.0
Qatar	2011	585	12.9	6.6	71.4	7.0	2.1	12.9	15.0	10.9
	2015	741	14.1	6.4	70.0	5.5	4.1	14.1	12.7	15.5
Russian Federation	2011	626	47.5	7.3	34.6	8.5	2.2	47.5	54.2	41.2
	2015	706	58.0	4.5	29.0	7.0	1.5	58.0	61.2	55.1
Saudi Arabia	2011	513	13.0	6.8	72.0	7.0	1.2	13.0	10.1	16.0
	2015	631	11.7	6.7	62.7	13.9	5.0	11.7	9.5	13.9
Serbia	2011	623	38.7	12.5	31.9	12.0	4.9	38.7	40.2	37.2
	2015	581	45.3	3.9	37.7	11.1	2.0	45.3	48.0	42.8
Singapore	2011	906	52.7	11.0	35.7	0.3	0.3	52.7	57.6	48.1
	2015	929	59.4	8.6	31.0	0.8	0.1	59.4	59.6	59.3
Slovak Republic	2011	800	45.0	6.6	37.5	8.3	2.6	45.0	42.4	47.5
	2015	812	48.6	5.1	36.2	9.5	0.6	48.6	49.9	47.5
Slovenia	2011	644	46.4	9.5	31.5	8.6	4.0	46.4	47.6	45.4
	2015	623	48.0	7.9	36.2	5.7	2.1	48.0	51.4	45.2
Spain	2011	601	31.5	10.0	42.9	11.9	3.7	31.5	32.9	30.1
	2015	1113	37.2	9.8	44.7	6.2	2.1	37.2	37.9	36.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_l1 (M051134): Data Display / Applying Type: CR 1 Point  
Label: Months Peter paid less for phone

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	42.0	3.7	41.7	8.5	4.1	42.0	44.2	39.9
	2015	597	44.2	6.2	39.6	6.3	3.7	44.2	47.0	41.5
Turkey	2011	1066	30.4	3.6	59.4	5.1	1.6	30.4	32.6	28.2
	2015	910	30.0	4.7	60.1	4.0	1.2	30.0	30.4	29.6
United Arab Emirates	2011	2107	16.3	7.3	66.9	6.9	2.6	16.3	15.2	17.3
	2015	3018	20.9	6.9	65.9	4.6	1.8	20.9	22.0	19.9
United States	2011	1798	40.1	6.6	48.0	2.5	2.8	40.1	38.8	41.5
	2015	1418	41.2	4.1	49.6	2.2	2.9	41.2	40.8	41.7
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International Avg (n=40)	2011	29636	39.1	7.3	43.9	6.8	2.8	39.1	40.0	38.3
	2015	30626	40.3	6.5	45.5	5.5	2.3	40.3	41.2	39.4
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Ontario, Canada	2011	672	41.9	4.5	47.6	1.5	4.6	41.9	42.4	41.3
	2015	652	37.8	5.7	47.8	3.0	5.7	37.8	37.8	37.7
Quebec, Canada	2011	597	50.5	5.4	38.1	3.4	2.7	50.5	47.8	53.4
	2015	395	53.4	5.5	30.4	5.0	5.7	53.4	58.3	48.2
Norway (4)	2011	450	27.8	17.2	43.2	6.4	5.4	27.8	24.4	31.5
	2015	587	33.7	10.7	44.6	4.7	6.2	33.7	31.4	36.0
Abu Dhabi, UAE	2011	601	12.7	8.2	69.5	7.9	1.7	12.7	11.1	14.2
	2015	715	16.2	6.8	71.4	3.8	1.9	16.2	18.8	13.8
Dubai, UAE	2011	873	24.7	6.8	61.5	4.1	2.9	24.7	24.9	24.4
	2015	1060	34.4	6.9	55.1	2.5	1.0	34.4	34.6	34.3
Florida, US	2011	380	35.1	5.6	55.5	2.5	1.3	35.1	33.8	36.7
	2015	288	37.9	4.5	55.5	1.2	1.0	37.9	38.2	37.6
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M03\_12 (M051077): Data Display / Applying Type: MC Key: C  
Label: What students did after school

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	881	50.4	34.4	7.1	50.4	4.0	2.2	1.8	45.3	55.4
	2015	839	57.7	31.1	5.2	57.7	2.9	1.1	2.0	58.8	56.7
Bahrain	2011	574	30.9	41.4	14.8	30.9	6.3	2.0	4.5	24.2	38.1
	2015	590	24.2	47.4	12.7	24.2	9.6	1.4	4.8	23.9	24.4
Belgium (Flemish)	2011	704	58.4	28.2	6.5	58.4	2.3	2.3	2.3	55.7	60.9
	2015	776	53.2	26.4	8.2	53.2	2.8	7.5	1.8	53.3	53.0
Chile	2011	786	35.6	36.3	12.4	35.6	6.3	2.0	7.4	34.6	36.5
	2015	675	39.5	35.0	11.6	39.5	4.5	1.8	7.6	37.5	41.5
Chinese Taipei	2011	613	62.3	28.4	6.0	62.3	3.0	0.2	0.1	61.3	63.2
	2015	606	62.9	26.5	7.3	62.9	2.8	0.3	0.2	59.5	65.8
Croatia	2011	646	43.6	35.2	7.2	43.6	5.5	3.6	4.8	39.5	47.9
	2015	284	48.7	37.1	6.8	48.7	5.7	1.8	0.0	47.9	49.7
Czech Republic	2011	663	53.4	32.1	4.1	53.4	1.7	4.6	4.1	50.6	56.1
	2015	731	62.8	24.7	5.6	62.8	2.2	1.4	3.3	65.2	60.5
Denmark	2011	566	55.7	26.3	5.2	55.7	2.4	4.6	5.8	57.7	53.8
	2015	537	59.2	22.4	4.5	59.2	1.7	3.1	9.0	61.6	56.8
England	2011	480	55.8	28.3	6.3	55.8	4.1	1.2	4.4	54.6	56.9
	2015	569	61.5	24.5	6.8	61.5	3.1	1.5	2.6	63.5	59.7
Finland	2011	665	66.6	19.7	6.3	66.6	4.2	2.1	1.2	60.0	72.9
	2015	721	63.8	26.2	4.3	63.8	2.4	2.4	0.9	65.9	61.7
Georgia	2011	679	32.9	37.4	8.6	32.9	8.4	4.7	8.0	34.6	31.3
	2015	562	38.7	37.8	8.4	38.7	4.9	3.9	6.3	37.7	39.8
Germany	2011	569	53.6	29.3	8.3	53.6	3.2	3.4	2.3	53.3	53.9
	2015	565	55.9	29.6	6.4	55.9	3.2	2.2	2.7	55.8	56.1
Hong Kong SAR	2011	575	64.8	23.7	7.0	64.8	3.7	0.8	0.0	62.3	67.1
	2015	507	69.3	21.9	5.1	69.3	2.0	1.5	0.2	69.6	69.2
Hungary	2011	730	49.7	30.5	8.6	49.7	4.0	1.9	5.3	47.6	51.8
	2015	725	49.5	36.5	7.7	49.5	2.7	2.3	1.3	47.5	51.6
Iran, Islamic Rep. of	2011	823	20.9	41.4	11.2	20.9	7.6	7.3	11.7	18.0	23.6
	2015	546	20.5	50.7	10.6	20.5	5.8	7.6	4.8	19.2	21.7
Ireland	2011	647	55.0	33.2	6.3	55.0	2.8	1.2	1.5	47.5	62.5
	2015	620	61.5	30.2	4.0	61.5	2.6	1.1	0.6	57.8	64.6
Italy	2011	605	42.7	39.8	6.8	42.7	4.2	1.5	4.9	38.2	46.8
	2015	633	51.1	36.3	4.9	51.1	2.2	2.5	2.9	49.9	52.2
Japan	2011	628	70.3	19.0	5.1	70.3	2.5	1.6	1.6	67.1	73.5
	2015	627	76.3	16.1	3.9	76.3	1.0	2.1	0.6	79.9	72.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_12 (M051077): Data Display / Applying Type: MC Key: C  
Label: What students did after school

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	630	44.9	33.7	8.4	44.9	6.3	2.1	4.6	45.6	44.2
	2015	676	66.6	23.7	4.1	66.6	4.0	0.7	0.7	66.6	66.7
Korea, Rep. of	2011	625	75.4	16.3	5.5	75.4	2.0	0.1	0.7	75.7	75.1
	2015	669	70.1	17.9	8.0	70.1	2.7	0.5	0.7	68.4	71.7
Kuwait	2011	581	15.9	39.6	18.2	15.9	12.9	6.0	7.4	14.5	17.5
	2015	503	15.0	41.3	15.5	15.0	7.7	7.2	13.2	13.0	17.5
Lithuania	2011	664	54.5	30.7	9.5	54.5	2.1	1.3	1.9	52.2	56.9
	2015	657	56.1	29.6	6.0	56.1	3.1	3.9	1.4	55.0	57.2
Morocco	2011	1092	12.2	35.3	28.2	12.2	9.4	4.3	10.6	11.1	13.2
	2015	718	17.6	36.7	22.6	17.6	11.7	6.4	5.0	20.3	15.1
Netherlands	2011	453	74.6	16.3	5.4	74.6	2.2	1.2	0.4	75.5	74.0
	2015	653	69.3	18.6	5.1	69.3	2.8	0.9	3.3	68.9	69.6
New Zealand	2011	786	38.3	44.1	8.0	38.3	4.7	2.0	2.9	36.9	39.6
	2015	904	44.9	40.3	5.4	44.9	3.1	3.6	2.7	41.9	47.7
Northern Ireland	2011	514	64.8	27.2	6.1	64.8	1.0	0.5	0.4	65.8	63.6
	2015	427	63.3	25.6	9.1	63.3	2.0	0.0	0.0	62.2	64.2
Oman	2011	1491	19.9	41.4	14.0	19.9	13.5	4.3	6.9	21.3	18.3
	2015	1285	23.7	44.0	15.7	23.7	12.1	1.9	2.8	23.7	23.6
Portugal	2011	572	52.1	30.9	9.4	52.1	2.8	1.9	2.9	50.7	53.6
	2015	659	53.6	27.5	6.2	53.6	5.1	2.7	4.9	50.5	56.6
Qatar	2011	585	27.0	42.0	14.6	27.0	10.6	2.8	3.0	26.4	27.6
	2015	741	25.4	44.8	15.5	25.4	6.5	2.2	5.6	23.6	27.3
Russian Federation	2011	626	63.0	20.5	6.3	63.0	5.2	1.7	3.3	63.8	62.2
	2015	706	71.5	16.2	5.9	71.5	2.8	1.3	2.3	71.1	71.8
Saudi Arabia	2011	513	25.5	41.3	17.7	25.5	11.4	2.3	1.9	23.5	27.5
	2015	629	9.3	26.9	7.2	9.3	6.0	39.4	11.2	10.1	8.6
Serbia	2011	623	51.8	26.7	5.5	51.8	4.7	3.2	8.2	48.2	55.4
	2015	581	56.3	27.3	7.0	56.3	3.4	2.6	3.5	56.7	55.8
Singapore	2011	906	77.8	11.8	8.0	77.8	1.8	0.2	0.4	77.9	77.7
	2015	929	81.9	11.3	5.1	81.9	0.9	0.3	0.4	80.4	83.3
Slovak Republic	2011	800	48.6	34.4	6.4	48.6	5.0	2.4	3.1	40.9	56.2
	2015	812	54.1	32.2	6.2	54.1	4.9	0.8	1.8	52.0	55.9
Slovenia	2011	644	51.4	28.5	6.4	51.4	5.4	3.0	5.4	53.0	50.1
	2015	311	59.2	29.2	7.7	59.2	1.9	1.4	0.7	60.5	57.8
Spain	2011	601	36.8	39.1	9.2	36.8	5.5	3.6	5.8	35.7	38.0
	2015	1113	48.5	34.9	5.1	48.5	4.7	3.3	3.6	45.7	51.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M03\_12 (M051077): Data Display / Applying Type: MC Key: C  
Label: What students did after school

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	681	54.6	27.8	6.4	54.6	2.9	2.4	5.9	52.1	57.0
	2015	597	59.0	22.6	6.4	59.0	3.4	3.1	5.4	59.8	58.4
Turkey	2011	1065	36.2	40.9	10.6	36.2	8.3	1.6	2.3	35.3	37.1
	2015	910	38.0	40.3	11.2	38.0	6.7	1.7	2.1	34.8	41.3
United Arab Emirates	2011	2107	28.7	41.8	14.2	28.7	8.8	2.9	3.5	25.5	32.0
	2015	3018	33.4	41.0	12.1	33.4	8.8	2.3	2.4	33.4	33.3
United States	2011	1798	55.1	30.8	4.8	55.1	2.7	3.3	3.2	52.7	57.5
	2015	1418	53.1	32.1	6.0	53.1	3.0	2.4	3.5	51.1	55.2
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International Avg (n=40)	2011	30191	47.8	31.6	9.0	47.8	5.1	2.5	3.9	45.9	49.7
	2015	30029	50.6	30.6	7.9	50.6	4.2	3.4	3.2	50.1	51.2
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Ontario, Canada	2011	672	49.7	33.8	6.3	49.7	3.8	1.3	5.0	51.5	48.0
	2015	652	54.6	28.9	4.9	54.6	2.9	2.0	6.7	52.7	56.5
Quebec, Canada	2011	597	51.2	33.4	7.8	51.2	3.0	1.8	2.8	46.5	56.1
	2015	395	49.8	28.1	8.7	49.8	3.5	2.1	7.7	52.8	46.6
Norway (4)	2011	450	40.4	36.9	9.1	40.4	4.4	2.4	6.9	32.7	48.6
	2015	587	42.3	35.2	8.9	42.3	3.0	3.5	7.2	40.8	43.8
Abu Dhabi, UAE	2011	601	24.1	41.8	16.6	24.1	11.1	3.7	2.7	19.1	29.1
	2015	715	28.8	42.0	13.3	28.8	10.6	2.9	2.4	30.8	26.9
Dubai, UAE	2011	873	38.7	40.0	8.9	38.7	6.5	2.3	3.6	36.4	40.9
	2015	1060	48.5	32.6	8.9	48.5	7.4	1.1	1.5	46.5	50.4
Florida, US	2011	380	51.9	33.1	7.9	51.9	3.2	1.7	2.2	50.3	53.7
	2015	288	48.6	37.3	4.1	48.6	6.0	1.8	2.2	51.1	46.1
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_01 (M041291): Number / Knowing Type: CR 1 Point  
Label: Subtract 428 - 176

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	45.4	20.6	31.2	2.6	0.3	45.4	48.3	42.7
	2015	868	49.1	16.3	32.7	1.9	0.0	49.1	50.0	48.4
Bahrain	2011	586	65.1	9.0	24.2	1.7	0.0	65.1	66.8	63.5
	2015	585	54.2	15.9	28.1	1.5	0.2	54.2	60.4	47.3
Belgium (Flemish)	2011	688	60.5	10.0	28.4	1.2	0.0	60.5	65.5	56.0
	2015	760	59.5	11.7	27.9	0.9	0.0	59.5	60.9	58.2
Chile	2011	789	60.8	15.4	18.8	3.9	1.1	60.8	60.3	61.2
	2015	677	49.8	23.3	23.0	3.1	0.8	49.8	52.6	46.8
Chinese Taipei	2011	614	92.7	1.0	6.0	0.3	0.0	92.7	91.8	93.4
	2015	611	94.3	0.7	4.8	0.2	0.1	94.3	95.0	93.6
Croatia	2011	659	80.8	7.7	10.3	1.2	0.0	80.8	83.4	78.2
	2015	570	79.8	6.8	13.2	0.2	0.0	79.8	84.4	75.6
Czech Republic	2011	648	67.0	14.0	17.0	1.8	0.1	67.0	64.1	69.7
	2015	740	68.7	11.7	17.4	2.1	0.1	68.7	72.9	64.2
Denmark	2011	580	64.0	18.7	15.0	2.0	0.2	64.0	67.2	60.6
	2015	530	66.1	8.1	21.2	3.1	1.5	66.1	70.9	61.2
England	2011	483	60.5	13.5	24.3	1.5	0.2	60.5	67.9	54.1
	2015	578	70.2	9.5	19.2	1.1	0.0	70.2	72.2	67.9
Finland	2011	665	57.8	16.9	22.5	2.8	0.0	57.8	57.5	58.0
	2015	716	53.2	22.7	20.9	2.8	0.5	53.2	53.3	53.1
Georgia	2011	689	74.4	7.0	15.2	3.2	0.2	74.4	74.7	74.2
	2015	553	76.0	7.0	15.9	1.0	0.2	76.0	77.4	74.5
Germany	2011	567	63.7	13.1	17.6	5.4	0.2	63.7	65.3	62.2
	2015	556	62.0	15.8	17.6	4.5	0.0	62.0	63.7	60.4
Hong Kong SAR	2011	561	90.6	4.0	5.3	0.1	0.0	90.6	88.2	92.7
	2015	507	91.4	1.0	7.5	0.2	0.0	91.4	92.6	90.3
Hungary	2011	742	75.4	9.6	13.5	1.3	0.1	75.4	77.1	73.9
	2015	716	77.8	7.9	13.7	0.4	0.1	77.8	76.9	78.8
Iran, Islamic Rep. of	2011	824	66.6	6.1	19.4	7.8	0.1	66.6	68.7	64.5
	2015	539	44.2	12.5	30.7	12.5	0.2	44.2	56.5	31.7
Ireland	2011	648	80.8	6.5	11.4	1.4	0.0	80.8	84.6	77.4
	2015	617	85.2	4.8	9.3	0.7	0.0	85.2	89.7	81.2
Italy	2011	598	78.7	8.1	11.9	1.2	0.2	78.7	78.7	78.7
	2015	619	78.6	9.7	11.2	0.5	0.0	78.6	79.3	77.9
Japan	2011	634	89.6	2.4	8.0	0.0	0.0	89.6	91.0	88.1
	2015	629	90.4	1.9	7.7	0.0	0.0	90.4	90.7	90.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_01 (M041291): Number / Knowing Type: CR 1 Point  
Label: Subtract 428 - 176

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	85.3	3.5	10.0	0.8	0.4	85.3	89.7	80.9
	2015	673	86.4	3.0	9.3	1.2	0.0	86.4	89.8	83.2
Korea, Rep. of	2011	620	93.5	1.1	5.4	0.0	0.0	93.5	93.1	93.9
	2015	674	93.0	1.2	5.5	0.3	0.0	93.0	93.1	92.9
Kuwait	2011	584	30.7	10.7	49.0	8.8	0.9	30.7	38.8	21.0
	2015	507	29.7	16.0	41.2	12.5	0.6	29.7	31.7	27.7
Lithuania	2011	692	73.9	9.9	15.1	1.0	0.0	73.9	76.1	72.0
	2015	638	80.1	7.5	11.2	1.2	0.0	80.1	82.3	78.2
Morocco	2011	1127	40.5	9.6	38.9	10.3	0.6	40.5	41.6	39.6
	2015	730	45.9	14.7	35.3	3.4	0.7	45.9	49.3	43.0
Netherlands	2011	467	66.3	8.7	24.3	0.7	0.0	66.3	62.2	70.2
	2015	646	59.8	12.1	26.1	1.7	0.3	59.8	62.3	57.5
New Zealand	2011	805	23.6	21.7	51.7	2.8	0.2	23.6	18.2	28.6
	2015	894	31.9	20.2	43.5	3.4	1.1	31.9	26.7	37.1
Northern Ireland	2011	499	73.1	9.0	17.3	0.6	0.0	73.1	76.6	70.1
	2015	448	75.6	10.5	13.4	0.6	0.0	75.6	80.5	71.0
Oman	2011	1483	48.9	9.5	37.6	3.7	0.4	48.9	53.1	44.9
	2015	1314	49.8	11.9	36.1	2.1	0.1	49.8	52.2	47.3
Portugal	2011	581	75.0	10.5	14.1	0.3	0.0	75.0	73.9	76.2
	2015	668	77.9	5.8	15.6	0.7	0.0	77.9	81.5	74.3
Qatar	2011	593	50.3	9.0	37.4	3.0	0.3	50.3	54.2	47.1
	2015	751	60.4	11.0	24.8	3.1	0.6	60.4	62.8	58.0
Russian Federation	2011	644	86.6	4.4	8.3	0.7	0.0	86.6	90.3	83.0
	2015	713	88.5	0.6	10.5	0.4	0.0	88.5	88.7	88.3
Saudi Arabia	2011	656	46.7	14.3	34.0	4.9	0.0	46.7	52.9	40.4
	2015	607	29.0	10.7	46.8	12.4	1.1	29.0	35.6	23.0
Serbia	2011	620	85.5	6.4	7.3	0.7	0.1	85.5	88.0	83.4
	2015	571	83.4	4.4	10.6	1.4	0.2	83.4	87.7	79.9
Singapore	2011	907	93.4	1.8	4.6	0.2	0.0	93.4	94.0	92.8
	2015	931	93.4	1.5	4.8	0.2	0.0	93.4	93.7	93.1
Slovak Republic	2011	803	69.3	11.9	16.1	2.6	0.0	69.3	69.9	68.8
	2015	836	69.2	15.5	13.5	1.8	0.0	69.2	70.7	67.8
Slovenia	2011	638	68.1	14.8	14.5	2.6	0.0	68.1	71.8	64.9
	2015	639	72.0	9.0	17.7	1.0	0.3	72.0	74.0	69.9
Spain	2011	609	76.4	8.4	13.2	1.6	0.4	76.4	78.8	74.1
	2015	1099	80.7	6.4	12.1	0.8	0.0	80.7	80.8	80.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M05\_01 (M041291): Number / Knowing      Type: CR    1 Point  
Label: Subtract 428 - 176

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	46.7	24.5	25.0	3.3	0.4	46.7	46.6	46.8
	2015	595	55.6	19.7	22.0	2.0	0.7	55.6	58.8	52.7
Turkey	2011	1075	73.1	7.9	17.7	1.4	0.0	73.1	73.6	72.6
	2015	924	75.7	7.0	15.3	2.0	0.0	75.7	74.2	77.1
United Arab Emirates	2011	2100	52.4	14.7	28.4	4.3	0.2	52.4	54.3	50.6
	2015	3017	55.0	14.3	28.0	2.7	0.0	55.0	56.6	53.4
United States	2011	1782	80.0	7.2	12.1	0.6	0.1	80.0	81.2	79.0
	2015	1430	80.2	7.2	11.4	1.2	0.0	80.2	81.6	78.8
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International Avg (n=40)	2011	30448	67.8	10.1	19.5	2.4	0.2	67.8	69.5	66.3
	2015	30676	68.1	9.9	19.4	2.3	0.2	68.1	70.4	65.9
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Ontario, Canada	2011	638	53.9	17.9	26.8	1.1	0.3	53.9	46.6	61.5
	2015	346	53.2	16.2	28.8	1.6	0.2	53.2	53.1	53.3
Quebec, Canada	2011	613	80.5	4.3	13.8	1.2	0.2	80.5	83.1	78.1
	2015	321	82.5	9.2	8.1	0.2	0.0	82.5	85.1	80.0
Norway (4)	2011	442	46.1	22.5	28.9	2.2	0.3	46.1	47.0	44.9
	2015	590	44.9	21.6	29.1	3.5	0.9	44.9	45.3	44.6
Abu Dhabi, UAE	2011	603	45.3	18.5	32.7	3.1	0.3	45.3	48.0	42.7
	2015	709	40.9	18.6	37.0	3.5	0.0	40.9	42.5	39.5
Dubai, UAE	2011	870	61.9	14.3	20.9	2.8	0.1	61.9	60.4	63.1
	2015	1071	69.7	9.6	19.4	1.3	0.0	69.7	72.9	66.5
Florida, US	2011	390	81.2	8.2	9.5	1.0	0.0	81.2	84.9	77.9
	2015	292	80.5	5.1	12.5	1.4	0.5	80.5	83.0	77.9
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_02 (M041289): Number / Applying Type: MC Key: C  
Label: Number closest in size to 300

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	76.8	1.3	18.2	76.8	2.1	1.3	0.3	71.3	82.0
	2015	868	78.0	1.2	16.6	78.0	2.8	1.4	0.0	75.1	80.5
Bahrain	2011	586	40.1	5.6	35.8	40.1	17.2	1.3	0.0	37.4	42.6
	2015	585	45.9	3.2	40.8	45.9	9.6	0.3	0.2	43.9	48.1
Belgium (Flemish)	2011	688	86.6	0.0	12.6	86.6	0.5	0.3	0.0	84.4	88.6
	2015	760	84.6	0.3	14.3	84.6	0.4	0.4	0.0	79.5	89.5
Chile	2011	789	39.7	1.7	52.9	39.7	2.8	1.7	1.1	36.0	43.4
	2015	677	41.8	1.0	52.1	41.8	3.1	0.6	1.3	34.8	49.3
Chinese Taipei	2011	614	76.3	0.3	21.2	76.3	0.7	1.5	0.0	74.8	77.6
	2015	611	77.1	0.2	22.1	77.1	0.4	0.1	0.1	73.5	80.5
Croatia	2011	659	44.8	0.6	53.0	44.8	1.2	0.3	0.0	37.4	52.1
	2015	570	48.2	0.3	47.9	48.2	2.6	1.1	0.0	39.3	56.3
Czech Republic	2011	648	60.6	0.5	37.9	60.6	0.4	0.4	0.1	50.3	70.2
	2015	740	65.7	0.7	31.8	65.7	1.0	0.8	0.1	57.0	74.9
Denmark	2011	580	85.4	0.1	12.0	85.4	1.7	0.3	0.5	80.7	90.4
	2015	530	85.9	0.0	10.0	85.9	1.2	1.4	1.5	82.1	89.8
England	2011	483	80.2	0.7	16.2	80.2	2.1	0.7	0.2	76.3	83.6
	2015	578	81.5	0.2	16.0	81.5	2.0	0.3	0.0	77.3	86.0
Finland	2011	665	80.1	0.8	18.3	80.1	0.5	0.3	0.0	73.2	85.8
	2015	716	78.3	0.4	18.4	78.3	2.1	0.3	0.5	76.1	80.3
Georgia	2011	689	54.7	1.4	36.0	54.7	5.8	1.6	0.4	54.9	54.5
	2015	553	59.1	3.6	33.1	59.1	3.7	0.4	0.2	56.8	61.5
Germany	2011	567	77.7	0.0	19.3	77.7	1.8	1.0	0.2	71.1	84.1
	2015	556	76.4	0.3	21.4	76.4	0.7	1.2	0.0	71.4	81.0
Hong Kong SAR	2011	561	87.8	0.1	11.8	87.8	0.2	0.1	0.0	85.8	89.6
	2015	507	90.2	0.2	9.4	90.2	0.0	0.2	0.0	88.0	92.3
Hungary	2011	742	65.5	1.0	30.9	65.5	1.6	0.7	0.1	56.6	73.4
	2015	716	63.9	1.0	31.6	63.9	1.6	1.8	0.1	61.3	66.3
Iran, Islamic Rep. of	2011	824	21.8	3.9	65.8	21.8	7.0	1.3	0.2	17.2	26.3
	2015	539	39.4	3.1	49.7	39.4	7.1	0.2	0.4	32.9	46.0
Ireland	2011	648	76.1	0.7	20.2	76.1	1.6	1.4	0.0	70.1	81.6
	2015	617	83.3	0.8	13.5	83.3	2.4	0.0	0.0	76.9	88.9
Italy	2011	598	42.2	0.7	54.3	42.2	2.3	0.4	0.2	33.8	50.9
	2015	620	38.5	0.3	56.8	38.5	3.9	0.6	0.0	31.5	45.0
Japan	2011	634	84.8	0.4	14.0	84.8	0.6	0.2	0.0	81.8	87.9
	2015	629	85.1	0.0	14.0	85.1	0.8	0.2	0.0	81.0	89.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_02 (M041289): Number / Applying Type: MC Key: C  
Label: Number closest in size to 300

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	36.1	1.0	59.7	36.1	2.4	0.4	0.4	31.9	40.3
	2015	673	36.1	0.4	61.5	36.1	1.5	0.5	0.0	35.3	36.9
Korea, Rep. of	2011	620	82.4	0.0	17.3	82.4	0.3	0.0	0.0	77.1	86.9
	2015	674	91.0	0.0	8.0	91.0	0.9	0.2	0.0	88.7	93.1
Kuwait	2011	578	34.5	7.2	29.7	34.5	22.2	5.6	0.8	35.3	33.7
	2015	507	39.6	6.0	38.3	39.6	10.6	4.7	0.8	34.4	44.5
Lithuania	2011	692	53.2	0.5	41.0	53.2	4.2	0.7	0.4	49.8	56.3
	2015	638	50.4	0.5	44.4	50.4	2.9	1.8	0.0	48.4	52.4
Morocco	2011	1028	26.7	7.0	56.3	26.7	10.0	0.0	0.0	25.5	27.8
	2015	729	30.2	4.4	50.2	30.2	12.1	2.4	0.7	31.9	28.8
Netherlands	2011	467	87.8	0.0	11.7	87.8	0.0	0.4	0.0	80.4	94.8
	2015	646	89.9	0.6	8.2	89.9	0.4	0.5	0.3	86.7	92.7
New Zealand	2011	805	70.9	0.6	24.2	70.9	3.7	0.4	0.2	68.4	73.2
	2015	894	70.6	1.1	23.1	70.6	2.4	1.5	1.3	66.3	75.1
Northern Ireland	2011	499	81.6	0.5	17.4	81.6	0.2	0.0	0.2	73.0	89.2
	2015	444	81.0	0.6	17.2	81.0	1.2	0.0	0.0	75.2	86.5
Oman	2011	1483	41.4	6.1	26.8	41.4	22.3	2.9	0.5	40.2	42.5
	2015	1313	41.6	5.3	31.8	41.6	19.6	1.3	0.4	40.0	43.2
Portugal	2011	581	52.5	0.3	45.6	52.5	0.8	0.7	0.0	42.3	63.5
	2015	668	54.5	0.8	43.6	54.5	0.8	0.3	0.0	50.0	58.9
Qatar	2011	596	36.3	6.5	40.3	36.3	14.5	2.1	0.3	32.4	39.4
	2015	751	42.6	4.5	40.0	42.6	9.8	2.5	0.6	38.8	46.5
Russian Federation	2011	644	44.9	0.5	53.5	44.9	0.8	0.3	0.0	40.4	49.3
	2015	713	43.3	0.1	55.3	43.3	0.3	1.0	0.0	40.9	45.7
Saudi Arabia	2011	654	40.7	6.0	31.3	40.7	21.3	0.7	0.0	43.2	38.1
	2015	605	36.8	5.0	39.1	36.8	15.3	2.0	1.7	28.8	44.0
Serbia	2011	620	58.2	0.9	38.7	58.2	1.1	0.9	0.1	47.4	66.8
	2015	571	51.3	1.6	44.9	51.3	1.9	0.1	0.2	44.7	56.7
Singapore	2011	907	68.7	1.7	26.6	68.7	2.7	0.3	0.0	65.8	71.4
	2015	931	68.5	1.6	27.9	68.5	1.7	0.3	0.0	65.8	70.9
Slovak Republic	2011	803	54.2	0.4	42.4	54.2	2.5	0.4	0.0	49.5	58.7
	2015	836	50.9	1.3	45.1	50.9	2.4	0.3	0.0	45.5	56.0
Slovenia	2011	637	63.8	0.3	32.7	63.8	2.2	1.1	0.0	55.5	70.8
	2015	639	65.0	0.2	32.1	65.0	2.3	0.2	0.3	59.5	70.5
Spain	2011	609	52.5	0.4	45.7	52.5	0.4	0.5	0.4	47.2	57.6
	2015	1099	58.0	0.1	41.3	58.0	0.4	0.1	0.0	47.2	68.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_02 (M041289): Number / Applying Type: MC Key: C  
Label: Number closest in size to 300

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	77.5	0.5	20.3	77.5	0.7	0.6	0.4	72.1	83.4
	2015	595	83.3	0.1	11.2	83.3	1.0	3.6	0.9	83.2	83.9
Turkey	2011	1075	58.1	3.1	30.5	58.1	8.0	0.3	0.0	53.4	62.2
	2015	924	57.2	4.5	32.5	57.2	5.7	0.2	0.0	50.3	64.0
United Arab Emirates	2011	2100	42.1	2.9	44.1	42.1	9.3	1.3	0.2	41.5	42.7
	2015	3019	44.7	3.7	42.9	44.7	6.5	2.1	0.0	43.4	45.9
United States	2011	1782	70.3	0.7	27.1	70.3	0.9	0.8	0.2	65.4	74.7
	2015	1430	64.1	0.9	32.0	64.1	1.4	1.5	0.0	58.9	69.7
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International Avg (n=40)	2011	30344	60.4	1.7	32.3	60.4	4.5	0.9	0.2	55.8	64.7
	2015	30671	61.8	1.5	31.8	61.8	3.7	1.0	0.3	57.6	66.0
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Ontario, Canada	2011	638	79.0	0.9	18.7	79.0	1.0	0.3	0.3	77.5	80.5
	2015	644	80.1	0.4	16.7	80.1	1.5	0.9	0.4	79.1	81.5
Quebec, Canada	2011	613	72.3	0.8	25.7	72.3	0.1	1.1	0.2	66.4	77.5
	2015	389	72.5	0.0	24.4	72.5	2.9	0.1	0.0	71.0	74.0
Norway (4)	2011	442	82.9	0.5	13.1	82.9	2.2	1.0	0.3	80.7	85.9
	2015	590	82.3	0.6	12.6	82.3	1.2	2.2	1.2	80.6	83.8
Abu Dhabi, UAE	2011	603	42.7	2.2	42.4	42.7	10.7	1.7	0.3	40.5	44.8
	2015	709	43.4	4.9	41.7	43.4	7.9	2.0	0.0	46.8	40.4
Dubai, UAE	2011	870	46.6	1.4	44.4	46.6	6.9	0.5	0.1	46.5	46.7
	2015	1072	52.3	3.2	39.9	52.3	3.0	1.5	0.0	44.9	59.7
Florida, US	2011	390	73.1	0.7	24.3	73.1	0.6	1.3	0.0	67.8	77.8
	2015	292	65.2	1.2	30.6	65.2	1.3	0.8	0.8	60.1	70.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_03 (M041068): Number / Knowing      Type: MC      Key: B  
Label: Which is the smallest number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	38.0	54.5	38.0	5.0	0.3	2.0	0.3	35.2	40.6
	2015	868	43.1	48.2	43.1	6.2	0.6	1.9	0.0	41.6	44.5
Bahrain	2011	586	19.2	74.2	19.2	3.0	1.9	1.8	0.0	13.8	24.2
	2015	585	18.3	75.0	18.3	3.8	1.6	1.0	0.2	18.3	18.3
Belgium (Flemish)	2011	688	64.1	30.3	64.1	4.5	0.6	0.4	0.0	59.4	68.4
	2015	760	68.1	25.0	68.1	5.8	0.7	0.3	0.0	63.9	72.1
Chile	2011	789	10.9	80.8	10.9	4.5	1.6	1.2	1.1	8.5	13.2
	2015	677	16.9	75.6	16.9	4.1	1.4	0.7	1.3	15.2	18.6
Chinese Taipei	2011	614	80.5	13.9	80.5	5.0	0.2	0.5	0.0	79.1	81.7
	2015	611	87.3	9.2	87.3	3.0	0.4	0.1	0.1	83.1	91.1
Croatia	2011	659	23.0	70.0	23.0	4.1	0.7	2.2	0.0	16.8	29.2
	2015	570	18.8	76.9	18.8	3.9	0.0	0.4	0.0	16.5	20.8
Czech Republic	2011	648	21.9	70.9	21.9	3.5	0.6	2.9	0.1	16.7	26.9
	2015	740	25.2	69.9	25.2	3.5	0.1	1.3	0.1	21.1	29.6
Denmark	2011	580	47.1	45.7	47.1	5.4	0.3	1.0	0.5	41.5	53.2
	2015	530	54.8	37.0	54.8	4.0	0.7	1.8	1.7	49.7	60.0
England	2011	483	54.7	31.0	54.7	11.9	1.3	0.9	0.2	53.1	56.1
	2015	578	53.9	30.0	53.9	13.2	1.1	1.8	0.0	51.0	57.0
Finland	2011	665	63.1	34.2	63.1	2.0	0.0	0.7	0.0	61.7	64.2
	2015	716	59.3	37.0	59.3	2.2	0.3	0.6	0.5	63.0	55.9
Georgia	2011	689	15.5	69.8	15.5	8.6	1.7	3.9	0.4	15.3	15.7
	2015	553	13.0	73.4	13.0	7.0	1.7	4.5	0.3	14.8	11.2
Germany	2011	567	50.3	45.3	50.3	2.8	0.0	1.5	0.2	46.4	54.1
	2015	556	55.8	42.5	55.8	0.9	0.0	0.7	0.0	54.0	57.5
Hong Kong SAR	2011	561	76.4	19.3	76.4	3.5	0.5	0.3	0.0	76.1	76.7
	2015	507	77.7	18.4	77.7	3.2	0.2	0.6	0.0	81.1	74.7
Hungary	2011	742	23.1	59.3	23.1	14.1	0.6	2.6	0.3	17.0	28.5
	2015	716	27.3	62.3	27.3	8.9	0.4	0.9	0.1	22.9	31.7
Iran, Islamic Rep. of	2011	824	6.6	81.1	6.6	5.3	1.6	5.3	0.2	4.2	8.9
	2015	539	4.3	88.5	4.3	3.1	2.1	1.6	0.4	2.0	6.6
Ireland	2011	648	44.5	45.8	44.5	8.1	0.4	1.3	0.0	39.2	49.3
	2015	617	63.1	33.5	63.1	2.9	0.5	0.1	0.0	60.7	65.1
Italy	2011	598	55.1	39.1	55.1	4.0	0.4	1.2	0.2	51.3	59.0
	2015	620	58.7	36.4	58.7	3.7	0.3	0.9	0.0	48.9	67.8
Japan	2011	634	85.5	5.8	85.5	8.1	0.4	0.2	0.0	81.9	89.1
	2015	629	84.0	7.7	84.0	7.9	0.3	0.2	0.0	81.1	86.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_03 (M041068): Number / Knowing      Type: MC      Key: B  
Label: Which is the smallest number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	18.3	74.8	18.3	4.8	0.6	1.1	0.4	15.8	20.8
	2015	673	32.0	60.3	32.0	6.0	0.9	0.9	0.0	29.1	34.7
Korea, Rep. of	2011	620	81.9	14.2	81.9	3.4	0.6	0.0	0.0	85.0	79.2
	2015	674	82.5	13.6	82.5	3.2	0.6	0.1	0.0	80.7	84.2
Kuwait	2011	579	9.1	69.4	9.1	10.7	3.9	6.0	0.9	9.1	9.0
	2015	507	9.5	71.9	9.5	8.2	3.7	5.5	1.3	5.9	12.9
Lithuania	2011	692	35.3	51.0	35.3	10.1	2.8	0.3	0.4	34.2	36.4
	2015	638	42.3	48.9	42.3	6.7	0.6	1.3	0.0	37.1	47.1
Morocco	2011	1027	22.6	66.0	22.6	8.9	2.6	0.0	0.0	18.2	26.9
	2015	729	19.3	66.3	19.3	7.1	3.7	2.9	0.7	15.3	22.5
Netherlands	2011	467	39.2	55.8	39.2	4.3	0.2	0.4	0.0	35.7	42.5
	2015	646	51.0	46.4	51.0	1.7	0.1	0.5	0.3	47.2	54.5
New Zealand	2011	805	26.3	55.3	26.3	16.1	1.1	0.8	0.4	23.4	28.9
	2015	894	30.9	52.1	30.9	13.1	0.9	1.8	1.3	26.8	35.0
Northern Ireland	2011	499	63.2	27.9	63.2	7.5	0.0	1.3	0.2	64.9	61.6
	2015	442	63.8	28.5	63.8	7.3	0.4	0.0	0.0	64.1	63.6
Oman	2011	1483	9.9	73.3	9.9	11.0	3.5	1.7	0.6	8.9	10.8
	2015	1311	17.5	62.2	17.5	15.0	3.5	1.4	0.4	15.7	19.3
Portugal	2011	581	59.7	29.8	59.7	8.1	0.8	1.5	0.1	54.7	65.0
	2015	668	52.4	35.9	52.4	10.3	1.2	0.2	0.0	44.5	60.2
Qatar	2011	596	17.6	67.4	17.6	9.1	4.1	1.4	0.5	15.6	19.2
	2015	751	21.6	68.5	21.6	4.4	1.9	2.8	0.8	14.4	29.1
Russian Federation	2011	644	29.9	61.2	29.9	7.4	0.4	0.9	0.2	26.7	33.2
	2015	713	36.9	55.5	36.9	6.3	0.8	0.5	0.0	35.7	38.1
Saudi Arabia	2011	655	13.8	74.5	13.8	7.3	2.7	1.7	0.1	14.1	13.6
	2015	607	11.6	74.9	11.6	5.1	3.1	3.5	1.8	8.3	14.5
Serbia	2011	620	25.2	57.5	25.2	14.3	0.7	2.2	0.1	21.6	28.1
	2015	571	27.7	60.1	27.7	9.1	0.7	2.3	0.2	24.5	30.3
Singapore	2011	907	78.3	13.6	78.3	6.4	1.4	0.2	0.0	76.8	79.8
	2015	931	80.5	13.4	80.5	4.9	0.6	0.5	0.0	79.9	81.1
Slovak Republic	2011	803	37.8	58.1	37.8	2.9	0.2	1.0	0.0	35.5	40.0
	2015	836	30.6	65.2	30.6	2.7	0.3	1.2	0.0	25.4	35.7
Slovenia	2011	638	27.0	69.1	27.0	2.7	0.4	0.7	0.1	22.8	30.5
	2015	639	26.2	69.1	26.2	2.8	0.9	0.8	0.3	23.8	28.6
Spain	2011	609	34.1	62.4	34.1	1.9	0.1	1.0	0.5	30.5	37.4
	2015	1099	47.7	49.6	47.7	1.7	0.1	0.8	0.0	44.0	51.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_03 (M041068): Number / Knowing Type: MC Key: B  
Label: Which is the smallest number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	32.1	60.7	32.1	5.6	0.1	1.0	0.4	26.6	38.3
	2015	595	42.0	50.0	42.0	5.8	0.1	1.1	0.9	34.2	50.0
Turkey	2011	1075	18.9	69.7	18.9	8.4	2.7	0.3	0.0	17.8	19.9
	2015	924	20.5	71.2	20.5	6.1	1.2	1.0	0.0	17.4	23.5
United Arab Emirates	2011	2100	16.9	73.9	16.9	4.9	2.4	1.6	0.2	14.0	19.8
	2015	3021	25.9	64.2	25.9	5.6	1.9	2.3	0.1	23.3	28.6
United States	2011	1782	40.6	51.5	40.6	5.2	0.7	1.8	0.2	37.6	43.4
	2015	1430	45.2	47.0	45.2	3.7	1.3	2.6	0.1	43.0	47.6
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International Avg (n=40)	2011	30346	37.9	52.7	37.9	6.6	1.1	1.4	0.2	35.2	40.6
	2015	30671	41.2	50.5	41.2	5.6	1.0	1.3	0.3	38.2	44.0
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Ontario, Canada	2011	638	27.6	67.6	27.6	3.6	0.6	0.3	0.3	23.5	31.8
	2015	643	28.0	65.7	28.0	4.3	0.0	1.0	0.9	23.2	33.0
Quebec, Canada	2011	613	45.0	49.8	45.0	3.1	0.5	1.1	0.5	41.7	47.9
	2015	389	51.1	46.3	51.1	2.1	0.0	0.5	0.1	45.9	56.1
Norway (4)	2011	442	24.7	64.5	24.7	8.0	0.3	2.0	0.4	20.4	30.7
	2015	590	21.7	69.7	21.7	4.9	0.2	2.2	1.2	21.6	21.9
Abu Dhabi, UAE	2011	603	16.5	73.0	16.5	5.6	3.0	1.7	0.3	13.0	20.0
	2015	710	19.9	67.7	19.9	7.0	2.8	2.6	0.0	18.8	20.9
Dubai, UAE	2011	870	24.3	67.4	24.3	5.2	1.6	1.4	0.1	22.0	26.1
	2015	1073	37.9	53.1	37.9	5.5	1.4	2.1	0.0	31.4	44.3
Florida, US	2011	390	44.8	46.0	44.8	5.5	1.3	2.5	0.0	43.4	45.9
	2015	292	50.3	42.5	50.3	3.8	1.3	1.2	0.8	48.2	52.5
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M05\_04A (M041065A): Number / Knowing Type: MC Key: C  
Label: Circle with 3/8 of the area shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	48.0	16.1	19.5	48.0	9.6	6.5	0.3	49.9	46.2
	2015	868	55.0	11.1	19.9	55.0	9.5	4.4	0.0	53.9	55.9
Bahrain	2011	586	30.2	26.3	23.3	30.2	13.0	7.1	0.0	32.6	28.0
	2015	583	28.0	29.8	25.1	28.0	12.2	4.8	0.2	26.1	30.1
Belgium (Flemish)	2011	687	56.6	12.0	18.3	56.6	11.5	1.7	0.0	61.5	52.2
	2015	760	56.3	13.9	16.2	56.3	10.5	3.1	0.0	57.0	55.7
Chile	2011	789	36.0	22.2	22.7	36.0	11.7	6.3	1.1	33.2	38.7
	2015	677	40.9	23.5	19.9	40.9	7.4	6.8	1.3	40.7	41.1
Chinese Taipei	2011	614	58.8	10.1	13.7	58.8	12.9	4.4	0.0	60.4	57.4
	2015	611	62.1	10.0	13.0	62.1	11.5	3.3	0.1	63.9	60.4
Croatia	2011	659	22.3	14.9	15.3	22.3	14.6	32.9	0.0	20.7	24.0
	2015	570	20.8	17.9	22.0	20.8	18.0	21.3	0.0	21.2	20.5
Czech Republic	2011	648	30.1	19.6	21.4	30.1	11.7	17.1	0.1	29.6	30.5
	2015	740	46.8	17.7	19.3	46.8	8.3	7.8	0.1	49.5	43.9
Denmark	2011	580	49.7	12.4	22.5	49.7	6.2	8.7	0.5	51.7	47.5
	2015	530	55.5	11.5	16.1	55.5	7.0	8.1	1.7	52.8	58.3
England	2011	483	54.2	13.9	17.0	54.2	8.7	6.0	0.2	52.7	55.6
	2015	578	48.9	14.0	20.8	48.9	9.8	6.5	0.0	44.6	53.6
Finland	2011	665	55.8	11.6	15.4	55.8	11.9	5.2	0.0	56.2	55.6
	2015	716	59.1	9.8	13.2	59.1	13.1	4.4	0.5	60.8	57.5
Georgia	2011	688	16.0	32.0	20.5	16.0	14.3	16.7	0.4	16.4	15.6
	2015	553	20.5	28.4	19.8	20.5	14.4	16.6	0.3	23.2	17.6
Germany	2011	567	29.1	12.5	35.0	29.1	7.6	15.4	0.4	26.5	31.6
	2015	556	29.9	16.2	31.0	29.9	8.7	14.2	0.0	26.7	32.8
Hong Kong SAR	2011	561	77.3	5.0	8.7	77.3	6.5	2.4	0.0	76.1	78.4
	2015	507	75.7	7.5	7.2	75.7	5.9	3.7	0.0	74.7	76.6
Hungary	2011	741	39.8	21.3	17.0	39.8	10.7	10.4	0.8	38.9	40.6
	2015	716	34.7	27.2	22.3	34.7	10.7	5.1	0.1	31.7	37.7
Iran, Islamic Rep. of	2011	824	24.6	38.8	14.5	24.6	6.8	14.9	0.4	25.0	24.3
	2015	539	31.7	40.0	16.4	31.7	5.0	6.5	0.4	33.1	30.3
Ireland	2011	648	48.2	13.8	16.4	48.2	12.5	9.1	0.0	46.8	49.5
	2015	617	57.0	9.5	17.8	57.0	10.5	5.2	0.0	55.0	58.8
Italy	2011	598	34.5	18.3	18.8	34.5	12.6	15.6	0.2	34.9	34.0
	2015	620	39.0	19.8	19.5	39.0	13.9	7.8	0.0	34.5	43.1
Japan	2011	634	65.8	7.1	12.3	65.8	12.0	2.7	0.0	67.4	64.1
	2015	629	69.6	7.8	10.8	69.6	8.5	3.3	0.0	67.7	71.6

DIFF = Percent correct

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M05\_04A (M041065A): Number / Knowing Type: MC Key: C  
Label: Circle with 3/8 of the area shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	32.9	33.5	18.1	32.9	9.3	5.8	0.4	27.2	38.7
	2015	673	43.6	21.4	18.2	43.6	12.2	4.7	0.0	40.8	46.1
Korea, Rep. of	2011	620	78.9	6.6	8.5	78.9	5.3	0.7	0.0	79.6	78.3
	2015	674	76.9	5.8	10.9	76.9	5.2	1.2	0.0	77.9	76.0
Kuwait	2011	579	14.1	36.5	22.6	14.1	10.1	15.7	0.9	13.7	14.6
	2015	507	18.3	28.6	20.3	18.3	9.8	21.7	1.3	16.6	19.9
Lithuania	2011	692	44.5	16.2	22.7	44.5	10.7	5.5	0.4	45.8	43.3
	2015	638	40.3	15.9	25.7	40.3	10.3	7.8	0.0	41.7	38.9
Morocco	2011	850	17.5	43.5	17.2	17.5	18.3	3.4	0.0	18.1	17.0
	2015	725	17.1	35.5	16.2	17.1	16.5	13.9	0.8	17.0	17.3
Netherlands	2011	467	58.0	12.5	16.5	58.0	9.3	3.7	0.0	56.7	59.1
	2015	646	48.9	14.5	21.0	48.9	11.8	3.4	0.3	48.9	49.0
New Zealand	2011	805	43.8	16.6	22.6	43.8	13.6	3.1	0.4	43.0	44.5
	2015	894	44.1	18.6	21.6	44.1	10.1	4.4	1.3	43.5	44.8
Northern Ireland	2011	499	59.8	8.4	18.7	59.8	7.9	4.9	0.2	53.5	65.3
	2015	448	60.1	12.1	16.1	60.1	8.8	3.0	0.0	57.5	62.5
Oman	2011	1483	22.3	28.8	24.3	22.3	14.6	9.3	0.6	23.8	21.0
	2015	1307	32.9	27.0	23.1	32.9	12.2	4.4	0.4	35.5	30.3
Portugal	2011	581	30.5	23.1	24.1	30.5	12.0	10.2	0.1	27.2	34.1
	2015	668	53.3	18.0	13.3	53.3	8.3	7.2	0.0	51.8	54.8
Qatar	2011	596	27.9	25.3	22.6	27.9	13.4	10.3	0.5	24.2	31.0
	2015	751	30.9	22.8	25.1	30.9	11.9	8.5	0.8	30.5	31.3
Russian Federation	2011	643	41.1	16.9	22.5	41.1	11.0	8.3	0.2	41.9	40.3
	2015	713	48.0	16.1	22.0	48.0	9.5	4.5	0.0	49.5	46.4
Saudi Arabia	2011	656	23.7	35.6	25.1	23.7	13.3	2.3	0.1	22.7	24.6
	2015	605	21.5	30.9	23.3	21.5	11.0	11.5	1.8	18.7	24.0
Serbia	2011	620	36.1	18.6	18.5	36.1	13.4	13.2	0.2	36.1	36.1
	2015	571	38.2	18.5	18.4	38.2	12.7	12.0	0.2	33.9	41.8
Singapore	2011	907	73.0	6.6	10.5	73.0	5.0	4.8	0.0	73.3	72.8
	2015	931	72.7	10.7	8.6	72.7	5.4	2.6	0.0	77.5	68.3
Slovak Republic	2011	803	29.5	28.5	20.1	29.5	11.3	10.7	0.0	28.7	30.2
	2015	836	29.6	30.5	18.9	29.6	9.9	11.1	0.0	27.7	31.4
Slovenia	2011	638	34.8	24.0	20.0	34.8	12.0	9.0	0.1	32.0	37.2
	2015	639	43.2	22.2	20.0	43.2	9.8	4.6	0.3	42.2	44.2
Spain	2011	589	31.8	21.7	24.1	31.8	10.0	11.9	0.5	30.7	32.8
	2015	1099	37.3	20.7	21.2	37.3	11.2	9.6	0.0	35.9	38.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_04A (M041065A): Number / Knowing Type: MC Key: C  
Label: Circle with 3/8 of the area shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	29.6	17.4	25.1	29.6	13.2	14.3	0.4	27.8	31.5
	2015	595	41.4	14.2	20.0	41.4	10.7	12.8	0.9	41.2	41.4
Turkey	2011	1075	32.9	30.0	19.6	32.9	13.4	4.1	0.0	34.6	31.5
	2015	924	39.2	28.2	18.3	39.2	10.5	3.8	0.0	40.3	38.1
United Arab Emirates	2011	2100	29.6	23.9	23.6	29.6	14.5	8.1	0.3	30.6	28.6
	2015	3019	35.1	25.2	21.5	35.1	12.6	5.5	0.1	37.0	33.2
United States	2011	1782	57.3	12.6	17.6	57.3	9.7	2.6	0.2	56.1	58.3
	2015	1430	56.3	13.6	16.1	56.3	10.5	3.5	0.1	52.6	60.3
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International Avg (n=40)	2011	30146	40.7	19.9	19.4	40.7	11.2	8.6	0.2	40.2	41.1
	2015	30663	44.0	19.2	18.7	44.0	10.4	7.4	0.3	43.4	44.6
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Ontario, Canada	2011	638	44.5	18.7	22.2	44.5	10.6	3.9	0.3	45.4	43.5
	2015	639	44.4	15.4	23.0	44.4	11.7	4.4	1.1	46.7	42.4
Quebec, Canada	2011	613	48.5	13.7	24.4	48.5	7.6	5.2	0.5	47.4	49.5
	2015	387	54.4	13.9	15.9	54.4	9.7	6.0	0.1	55.4	53.5
Norway (4)	2011	442	39.1	20.7	16.9	39.1	12.2	10.6	0.4	36.3	42.9
	2015	590	33.3	18.2	26.4	33.3	11.2	9.2	1.6	35.8	31.2
Abu Dhabi, UAE	2011	603	26.3	23.9	26.3	26.3	15.4	7.6	0.5	26.0	26.6
	2015	709	29.6	30.1	20.9	29.6	12.8	6.7	0.0	29.6	29.6
Dubai, UAE	2011	870	38.0	22.4	20.5	38.0	10.7	8.3	0.1	39.0	37.3
	2015	1072	47.4	17.9	19.6	47.4	10.5	4.6	0.0	50.0	44.9
Florida, US	2011	390	55.2	15.8	17.0	55.2	8.7	3.3	0.0	52.0	58.0
	2015	292	64.0	13.8	14.6	64.0	4.5	2.4	0.8	63.1	64.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_04B (M041065B): Number / Reasoning Type: CR 1 Point  
Label: Give reason for your selection

COUNTRY	Year	N	10 %	11 %	12 %	13 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	18.1	1.5	1.9	1.8	5.8	2.6	62.0	6.0	0.3	23.3	26.2	20.6
	2015	868	21.0	0.4	0.5	1.2	2.6	4.9	53.8	15.7	0.0	22.9	26.6	19.7
Bahrain	2011	586	9.4	0.5	0.7	0.4	3.4	0.4	57.5	27.6	0.0	11.1	11.8	10.4
	2015	583	11.4	0.8	1.7	2.8	3.3	1.3	72.5	5.9	0.2	16.8	20.2	12.9
Belgium (Flemish)	2011	688	27.9	1.8	0.8	3.6	11.2	3.3	49.6	1.8	0.0	34.1	38.5	30.1
	2015	760	29.3	0.2	0.5	2.3	4.9	3.3	44.2	15.3	0.0	32.3	38.3	26.6
Chile	2011	789	12.2	0.0	0.4	2.0	7.6	0.2	53.3	23.1	1.1	14.6	13.7	15.5
	2015	677	19.1	0.6	0.5	2.6	3.7	0.0	39.1	33.1	1.3	22.8	25.1	20.3
Chinese Taipei	2011	614	36.3	4.6	1.2	5.6	5.8	0.0	33.7	12.7	0.0	47.7	50.4	45.5
	2015	611	36.3	1.4	3.5	1.7	6.1	2.4	38.2	10.4	0.1	42.9	46.8	39.3
Croatia	2011	659	1.9	0.0	0.0	0.3	0.1	0.5	38.6	58.6	0.0	2.2	3.4	1.0
	2015	570	2.9	0.0	0.0	0.9	0.4	0.5	51.5	43.8	0.0	3.8	2.4	5.1
Czech Republic	2011	648	17.7	0.2	0.0	3.4	1.8	0.4	39.0	37.3	0.1	21.3	23.6	19.2
	2015	740	27.6	0.1	0.4	2.1	2.7	0.5	35.6	31.1	0.1	30.1	36.5	23.3
Denmark	2011	580	28.3	2.0	1.6	8.1	1.7	0.0	51.0	6.8	0.5	40.0	48.7	30.7
	2015	530	34.5	0.4	0.4	2.9	2.7	0.1	52.7	4.2	2.1	38.1	43.0	33.1
England	2011	483	23.7	2.1	2.7	1.7	15.1	5.2	46.1	3.2	0.2	30.2	33.6	27.1
	2015	578	17.3	5.4	2.7	0.5	0.8	5.1	52.2	16.0	0.0	25.9	28.2	23.5
Finland	2011	665	12.8	0.1	0.7	0.6	4.7	4.2	56.1	20.6	0.0	14.3	18.4	10.9
	2015	716	10.0	0.3	1.2	1.4	5.7	6.1	50.7	24.1	0.5	12.9	17.1	9.0
Georgia	2011	688	2.6	0.0	0.0	0.8	2.1	0.1	29.2	64.7	0.5	3.5	4.2	2.8
	2015	553	3.5	0.0	0.0	1.9	4.0	0.0	30.0	60.1	0.5	5.4	6.6	4.2
Germany	2011	567	0.2	0.7	0.5	0.1	1.7	4.2	51.3	40.8	0.4	1.5	1.1	1.9
	2015	556	1.5	0.2	0.2	0.2	2.3	3.2	55.6	36.8	0.0	2.1	1.1	3.0
Hong Kong SAR	2011	561	50.7	0.5	0.6	2.0	9.4	2.1	26.3	8.6	0.0	53.7	57.7	50.1
	2015	507	44.7	0.5	2.4	2.0	4.4	0.8	37.3	8.0	0.0	49.6	46.7	52.2
Hungary	2011	742	23.6	0.6	0.0	2.4	1.7	2.0	43.5	25.6	0.8	26.6	27.2	26.0
	2015	716	17.6	0.8	0.3	0.8	1.6	0.8	57.4	20.7	0.2	19.4	18.9	20.0
Iran, Islamic Rep. of	2011	824	8.7	0.0	0.1	0.3	0.4	0.0	47.8	42.3	0.4	9.1	10.5	7.7
	2015	539	9.7	0.0	0.0	0.6	1.7	0.1	42.7	44.7	0.4	10.4	13.0	7.7
Ireland	2011	648	15.2	2.1	2.8	1.3	12.6	4.8	56.3	4.7	0.1	21.4	23.6	19.4
	2015	617	17.7	1.4	1.5	0.7	7.8	6.5	63.8	0.7	0.0	21.2	22.9	19.8
Italy	2011	598	12.7	0.8	0.0	1.0	7.0	2.0	42.9	33.2	0.4	14.4	14.2	14.7
	2015	619	10.0	0.0	0.4	1.0	6.6	1.2	53.3	27.4	0.0	11.4	9.0	13.7
Japan	2011	634	43.4	5.1	4.1	1.5	2.4	3.1	36.9	3.4	0.0	54.1	60.3	47.7
	2015	629	40.5	1.1	6.1	1.0	4.5	5.5	34.4	7.0	0.0	48.6	54.1	43.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_04B (M041065B): Number / Reasoning Type: CR 1 Point  
Label: Give reason for your selection

COUNTRY	Year	N	10 %	11 %	12 %	13 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	626	14.4	0.0	0.4	0.9	0.5	0.1	24.4	58.9	0.4	15.7	17.3	14.1
	2015	673	25.9	1.7	0.7	0.1	0.2	0.0	23.6	47.8	0.0	28.4	27.7	29.0
Korea, Rep. of	2011	620	60.5	2.1	3.3	1.9	3.1	0.9	23.6	4.6	0.0	67.8	71.2	64.9
	2015	674	59.5	0.4	3.1	4.5	0.9	1.1	27.8	2.7	0.0	67.5	72.0	63.3
Kuwait	2011	583	1.7	0.0	0.5	0.3	0.1	0.0	36.5	59.7	1.2	2.5	4.1	0.5
	2015	507	3.4	0.4	0.1	0.5	0.6	0.0	51.0	42.6	1.4	4.3	3.4	5.2
Lithuania	2011	692	22.0	0.7	0.2	2.1	1.0	0.6	41.6	31.5	0.4	25.0	26.8	23.5
	2015	638	20.2	0.2	0.2	5.2	11.3	1.1	36.0	25.8	0.0	25.8	28.5	23.3
Morocco	2011	1120	0.3	0.0	0.5	0.2	0.7	0.0	31.4	66.2	0.7	1.0	0.6	1.4
	2015	730	1.9	0.8	0.0	1.1	0.2	0.5	60.9	33.4	1.2	3.9	5.1	2.8
Netherlands	2011	467	19.4	1.7	1.5	0.2	4.8	3.7	59.0	9.8	0.0	22.8	27.9	17.9
	2015	646	17.2	0.7	1.1	2.8	3.7	2.7	55.9	15.6	0.3	21.9	22.6	21.2
New Zealand	2011	805	14.2	0.4	1.2	0.4	2.9	3.2	60.7	16.7	0.4	16.2	18.1	14.4
	2015	894	16.4	1.0	1.5	1.9	1.9	2.1	58.4	15.5	1.3	20.9	23.8	17.9
Northern Ireland	2011	499	24.2	2.9	1.8	1.9	20.5	6.3	41.0	1.3	0.2	30.8	31.3	30.3
	2015	448	16.9	2.7	3.2	1.0	6.5	9.8	57.8	2.1	0.0	23.8	25.7	22.1
Oman	2011	1483	10.4	0.4	0.1	1.9	3.1	0.0	49.1	34.0	0.9	12.8	13.9	11.9
	2015	1314	14.5	1.3	0.4	1.9	5.1	0.3	46.4	29.9	0.4	18.0	20.9	15.0
Portugal	2011	581	13.8	0.1	0.1	2.4	1.6	0.7	58.6	22.6	0.1	16.5	15.7	17.3
	2015	668	29.0	0.8	0.7	3.2	3.0	2.4	46.6	14.3	0.0	33.7	36.8	30.6
Qatar	2011	596	8.6	1.0	0.7	2.3	7.3	0.1	45.1	34.2	0.8	12.6	12.5	12.7
	2015	751	9.9	2.1	0.6	2.6	2.6	0.4	57.8	23.3	0.8	15.1	14.6	15.6
Russian Federation	2011	644	21.7	0.2	0.0	4.1	0.9	0.3	65.5	7.1	0.2	26.0	30.9	21.1
	2015	713	30.1	0.2	0.0	2.8	2.4	0.3	42.2	21.9	0.0	33.2	39.8	26.6
Saudi Arabia	2011	656	4.5	0.9	0.0	1.7	0.5	0.1	90.0	2.3	0.1	7.1	8.8	5.3
	2015	607	4.9	0.4	0.9	0.9	0.3	0.0	71.9	18.6	2.0	7.2	7.5	7.0
Serbia	2011	620	15.5	0.9	0.0	0.4	6.0	0.3	53.1	23.5	0.2	16.8	17.8	16.0
	2015	571	16.6	1.6	0.4	2.0	1.5	0.6	48.9	27.7	0.6	20.7	20.7	20.8
Singapore	2011	907	51.6	0.7	1.9	2.5	0.5	1.3	37.8	3.7	0.0	56.6	62.4	51.3
	2015	931	57.2	2.0	2.4	2.0	1.1	1.9	31.1	2.3	0.0	63.6	72.3	55.8
Slovak Republic	2011	803	12.3	0.0	0.5	0.7	0.5	0.6	47.7	37.8	0.0	13.5	12.7	14.3
	2015	836	12.0	0.2	0.1	0.4	1.9	0.1	43.5	41.8	0.0	12.6	13.0	12.2
Slovenia	2011	638	17.4	0.2	0.3	0.8	5.5	0.1	54.0	21.6	0.1	18.8	19.1	18.4
	2015	639	28.1	0.7	0.5	2.8	3.1	1.2	49.8	13.5	0.3	32.1	35.6	28.6
Spain	2011	589	12.2	0.3	0.1	2.8	1.3	0.2	68.2	14.4	0.5	15.4	15.3	15.5
	2015	1099	18.2	1.1	0.7	4.5	5.1	0.8	52.9	16.7	0.0	24.4	26.7	22.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_04B (M041065B): Number / Reasoning Type: CR 1 Point  
Label: Give reason for your selection

COUNTRY	Year	N	10 %	11 %	12 %	13 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	6.5	0.1	0.2	0.4	3.8	0.6	59.6	28.4	0.4	7.3	8.9	5.5
	2015	595	18.8	1.4	0.1	0.7	2.3	2.3	50.1	23.0	1.3	21.0	24.7	17.0
Turkey	2011	1073	20.5	0.1	0.6	1.2	1.4	0.1	64.8	11.2	0.0	22.5	23.7	21.4
	2015	924	29.7	1.4	0.8	2.9	3.7	0.0	38.4	22.8	0.2	34.8	39.1	30.5
United Arab Emirates	2011	2100	9.4	0.6	0.4	1.6	2.4	0.3	62.8	21.8	0.5	12.1	14.2	10.0
	2015	3018	12.3	0.4	0.2	1.8	3.4	0.8	49.4	31.7	0.1	14.7	17.8	11.7
United States	2011	1782	30.1	3.8	2.0	3.0	6.3	2.6	51.4	0.5	0.2	39.0	42.6	35.7
	2015	1430	39.9	1.1	1.1	3.5	1.7	2.3	48.8	1.5	0.2	45.6	49.0	41.9
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International Avg (n=40)	2011	30419	18.4	1.0	0.9	1.8	4.2	1.4	48.7	23.3	0.3	22.0	24.1	20.1
	2015	30675	20.9	0.9	1.0	1.9	3.2	1.8	47.9	22.0	0.4	24.7	27.1	22.4
-----														
Ontario, Canada	2011	638	21.6	0.4	1.9	1.8	5.2	1.5	65.5	1.7	0.4	25.7	30.9	20.4
	2015	346	24.4	0.3	1.7	2.0	4.7	2.2	59.5	5.0	0.2	28.4	34.1	22.6
Quebec, Canada	2011	613	28.4	0.2	0.1	3.1	5.9	1.3	55.8	4.7	0.5	31.7	36.9	27.1
	2015	321	31.7	0.6	0.8	1.2	4.0	1.3	51.3	9.2	0.0	34.3	36.6	32.0
Norway (4)	2011	442	9.2	0.0	0.6	1.5	2.7	1.8	57.7	26.1	0.4	11.3	12.8	9.1
	2015	590	13.5	0.4	0.1	2.3	3.2	0.7	50.8	27.4	1.6	16.2	19.8	12.9
Abu Dhabi, UAE	2011	603	7.5	0.5	0.7	1.9	1.9	0.5	66.2	19.9	1.0	10.6	13.5	7.7
	2015	708	7.1	0.0	0.0	1.8	3.6	0.5	52.1	34.9	0.1	8.8	11.6	6.3
Dubai, UAE	2011	870	14.5	0.8	0.4	2.5	4.0	0.5	65.0	12.1	0.1	18.2	20.3	16.5
	2015	1072	23.7	1.1	0.5	2.2	4.7	1.4	46.5	19.8	0.0	27.5	31.2	23.9
Florida, US	2011	390	26.3	1.2	1.8	4.1	2.9	1.9	61.4	0.5	0.0	33.3	34.5	32.3
	2015	292	48.9	1.0	1.3	3.1	0.4	1.8	41.9	0.8	0.8	54.3	58.3	50.1
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_05 (M041096): Number / Knowing Type: MC Key: D  
Label: Number to go into the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	23.6	51.2	16.0	7.0	23.6	1.9	0.3	27.1	20.3
	2015	868	22.0	54.6	14.8	6.9	22.0	1.7	0.0	20.8	23.0
Bahrain	2011	586	25.8	50.7	13.8	5.4	25.8	4.4	0.0	27.5	24.2
	2015	583	26.7	56.1	10.2	6.1	26.7	0.6	0.2	26.7	26.7
Belgium (Flemish)	2011	687	44.5	41.2	10.3	3.5	44.5	0.6	0.0	47.5	41.7
	2015	760	37.5	42.5	14.7	4.0	37.5	1.5	0.0	39.6	35.5
Chile	2011	789	23.8	58.5	10.4	4.1	23.8	2.0	1.1	25.4	22.3
	2015	677	18.7	64.3	8.7	4.6	18.7	2.2	1.4	18.7	18.7
Chinese Taipei	2011	614	84.3	8.4	6.5	0.4	84.3	0.3	0.0	83.2	85.3
	2015	611	79.8	12.1	6.7	1.3	79.8	0.0	0.1	77.7	81.8
Croatia	2011	659	62.0	19.1	14.2	1.9	62.0	2.8	0.0	64.8	59.1
	2015	570	60.0	23.0	13.7	1.5	60.0	1.8	0.0	63.1	57.1
Czech Republic	2011	648	44.3	37.2	11.8	4.4	44.3	2.2	0.1	44.8	43.9
	2015	740	44.9	37.0	11.8	4.8	44.9	1.4	0.1	44.8	45.0
Denmark	2011	580	19.8	58.8	12.4	4.5	19.8	4.0	0.5	20.1	19.4
	2015	530	19.7	60.9	9.8	2.9	19.7	4.7	2.1	19.0	20.3
England	2011	483	40.7	39.5	11.5	5.4	40.7	2.6	0.2	42.5	39.2
	2015	578	38.7	43.1	10.2	5.6	38.7	2.5	0.0	38.3	39.0
Finland	2011	665	38.4	31.6	21.9	6.4	38.4	1.6	0.0	38.4	38.5
	2015	716	33.9	30.3	27.1	6.4	33.9	1.9	0.5	36.8	31.2
Georgia	2011	688	57.1	20.2	15.7	4.5	57.1	2.0	0.5	57.9	56.4
	2015	553	60.4	19.7	15.3	2.5	60.4	1.7	0.5	62.6	58.1
Germany	2011	567	50.9	35.6	8.6	2.3	50.9	2.1	0.4	54.9	47.1
	2015	556	38.2	43.9	12.8	3.1	38.2	1.9	0.0	37.8	38.6
Hong Kong SAR	2011	561	80.3	6.8	9.8	2.5	80.3	0.5	0.0	80.8	79.8
	2015	507	76.4	10.6	10.5	2.3	76.4	0.3	0.0	79.0	74.0
Hungary	2011	742	57.7	26.9	9.6	4.1	57.7	1.0	0.8	56.5	58.8
	2015	716	59.8	23.1	11.3	3.4	59.8	2.2	0.2	61.1	58.4
Iran, Islamic Rep. of	2011	824	33.0	41.1	14.6	4.0	33.0	6.7	0.6	36.3	29.7
	2015	539	20.6	48.1	18.5	5.4	20.6	6.9	0.6	20.3	20.8
Ireland	2011	648	30.6	51.5	11.1	2.5	30.6	4.2	0.1	30.7	30.5
	2015	617	34.8	48.8	10.4	3.3	34.8	2.8	0.0	34.3	35.2
Italy	2011	598	43.3	27.6	19.6	4.5	43.3	4.7	0.4	43.9	42.6
	2015	620	42.9	34.4	15.2	4.5	42.9	2.9	0.0	45.8	40.2
Japan	2011	634	72.3	11.8	13.9	1.7	72.3	0.3	0.0	76.1	68.4
	2015	629	68.2	14.8	14.5	2.0	68.2	0.5	0.0	67.5	68.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_05 (M041096): Number / Knowing      Type: MC      Key: D  
Label: Number to go into the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	74.8	9.7	11.7	2.0	74.8	1.4	0.4	79.8	69.8
	2015	673	78.3	10.8	8.8	0.8	78.3	1.4	0.0	80.8	75.8
Korea, Rep. of	2011	620	81.7	10.9	6.6	0.8	81.7	0.0	0.0	83.3	80.3
	2015	674	83.1	10.8	4.9	0.9	83.1	0.3	0.0	82.7	83.5
Kuwait	2011	576	10.6	55.4	16.1	8.6	10.6	8.4	0.9	12.5	8.3
	2015	507	11.4	55.6	18.0	6.1	11.4	7.6	1.4	9.1	13.5
Lithuania	2011	692	58.1	20.8	17.0	2.6	58.1	1.2	0.4	61.9	54.7
	2015	638	61.8	22.8	10.3	3.9	61.8	1.3	0.0	64.6	59.2
Morocco	2011	981	27.7	44.4	17.8	9.9	27.7	0.2	0.0	26.7	28.7
	2015	729	19.4	55.5	12.6	7.0	19.4	4.4	1.2	21.6	17.5
Netherlands	2011	467	32.6	53.4	7.8	5.5	32.6	0.7	0.0	30.3	34.8
	2015	646	34.0	50.4	9.1	5.0	34.0	1.1	0.3	35.6	32.6
New Zealand	2011	805	16.0	61.4	15.1	5.5	16.0	1.6	0.4	18.8	13.4
	2015	894	19.9	54.3	15.6	6.3	19.9	2.5	1.4	18.2	21.6
Northern Ireland	2011	499	43.3	44.6	6.9	4.4	43.3	0.6	0.2	41.7	44.7
	2015	441	46.5	37.5	9.8	6.2	46.5	0.0	0.0	49.8	43.4
Oman	2011	1483	20.8	54.8	12.9	6.3	20.8	4.1	1.0	23.5	18.4
	2015	1310	20.0	53.9	15.5	7.8	20.0	2.5	0.4	21.5	18.4
Portugal	2011	581	33.1	55.6	6.3	2.5	33.1	2.5	0.1	30.8	35.6
	2015	668	31.9	54.7	8.5	3.2	31.9	1.8	0.0	32.3	31.4
Qatar	2011	596	22.5	54.0	14.0	6.4	22.5	2.2	0.8	22.9	22.2
	2015	751	24.2	57.8	10.8	3.6	24.2	2.8	0.8	23.2	25.2
Russian Federation	2011	644	79.1	7.7	9.3	2.7	79.1	1.0	0.2	81.4	76.9
	2015	713	82.7	7.3	8.5	1.0	82.7	0.5	0.0	85.5	79.9
Saudi Arabia	2011	654	16.6	55.7	15.1	8.5	16.6	4.0	0.1	14.3	19.0
	2015	606	15.5	51.0	19.1	8.2	15.5	4.3	2.0	14.1	16.8
Serbia	2011	620	72.3	13.9	10.4	1.6	72.3	1.6	0.2	76.9	68.5
	2015	571	65.8	16.7	11.4	3.8	65.8	1.7	0.6	65.7	65.9
Singapore	2011	907	83.6	12.4	2.3	1.3	83.6	0.3	0.0	83.3	83.9
	2015	931	81.9	14.7	1.8	1.2	81.9	0.3	0.1	80.9	82.7
Slovak Republic	2011	803	59.9	23.5	10.7	4.3	59.9	1.5	0.0	61.3	58.7
	2015	836	47.0	32.7	14.6	4.5	47.0	1.2	0.0	48.9	45.2
Slovenia	2011	637	52.8	28.8	13.5	2.9	52.8	1.9	0.1	53.3	52.3
	2015	639	54.3	29.6	10.9	2.3	54.3	2.5	0.3	60.6	47.9
Spain	2011	609	36.1	49.1	8.1	2.6	36.1	3.6	0.5	35.5	36.6
	2015	1099	35.1	48.8	10.3	2.4	35.1	3.4	0.0	38.3	32.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_05 (M041096): Number / Knowing      Type: MC      Key: D  
Label: Number to go into the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	20.9	59.2	13.6	5.1	20.9	0.9	0.4	22.5	19.2
	2015	595	26.9	51.6	12.3	4.7	26.9	3.2	1.3	29.5	24.4
Turkey	2011	1075	52.8	35.9	7.9	2.4	52.8	1.0	0.0	55.2	50.7
	2015	924	51.3	37.9	7.7	2.1	51.3	0.8	0.3	52.2	50.4
United Arab Emirates	2011	2100	24.9	52.7	14.2	4.9	24.9	2.8	0.5	27.4	22.3
	2015	3019	28.9	52.9	12.4	3.5	28.9	2.3	0.1	29.1	28.7
United States	2011	1782	43.9	44.2	7.9	2.9	43.9	0.9	0.2	47.8	40.4
	2015	1430	39.2	48.3	6.9	2.5	39.2	2.9	0.2	42.2	35.9
-----											
International Avg (n=40)	2011	30293	44.9	36.6	11.9	4.1	44.9	2.2	0.3	46.2	43.7
	2015	30664	43.5	38.1	11.9	3.9	43.5	2.2	0.4	44.5	42.6
-----											
Ontario, Canada	2011	638	26.3	49.9	16.0	5.7	26.3	1.8	0.4	25.8	26.9
	2015	644	28.8	46.7	15.6	4.7	28.8	2.8	1.5	33.0	24.9
Quebec, Canada	2011	613	37.3	41.3	14.0	3.5	37.3	3.4	0.5	37.8	36.9
	2015	386	38.9	44.1	9.6	3.9	38.9	3.4	0.2	46.2	31.9
Norway (4)	2011	442	17.3	57.9	14.2	7.8	17.3	2.2	0.6	16.0	19.2
	2015	590	20.5	53.3	13.5	8.0	20.5	3.1	1.6	25.4	16.1
Abu Dhabi, UAE	2011	603	21.3	55.5	14.6	5.0	21.3	2.7	1.0	24.5	18.1
	2015	709	24.2	53.8	15.7	4.0	24.2	2.3	0.1	25.7	22.7
Dubai, UAE	2011	870	32.4	50.5	11.2	4.0	32.4	1.8	0.1	31.4	33.3
	2015	1072	39.2	49.0	7.0	3.4	39.2	1.3	0.0	38.8	39.7
Florida, US	2011	390	43.7	47.0	7.0	1.9	43.7	0.5	0.0	46.0	41.6
	2015	292	42.8	44.4	6.2	3.7	42.8	2.1	0.8	45.2	40.2
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.



M05\_06 (M041125): Number / Applying Type: MC Key: A  
Label: Rule to get numbers in column B

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	38.5	38.5	28.1	11.8	16.6	4.7	0.3	41.4	35.7
	2015	868	38.1	38.1	29.5	14.9	13.5	4.0	0.0	42.1	34.5
Bahrain	2011	586	30.9	30.9	23.8	10.5	26.2	8.6	0.0	28.6	33.0
	2015	583	41.7	41.7	22.1	11.5	18.1	6.4	0.2	37.4	46.6
Belgium (Flemish)	2011	688	35.4	35.4	26.5	15.4	19.0	3.7	0.0	35.3	35.4
	2015	760	35.0	35.0	26.0	14.3	17.3	7.3	0.0	38.7	31.6
Chile	2011	789	33.3	33.3	25.6	14.6	20.0	4.9	1.5	32.3	34.4
	2015	677	35.8	35.8	27.0	11.9	17.7	6.2	1.6	38.4	33.1
Chinese Taipei	2011	614	54.9	54.9	23.6	9.5	9.7	2.3	0.0	55.1	54.7
	2015	611	56.3	56.3	20.9	9.5	10.3	2.9	0.1	58.9	54.0
Croatia	2011	659	32.2	32.2	18.7	8.3	18.4	22.4	0.0	34.5	30.0
	2015	570	30.3	30.3	22.5	10.5	18.5	18.2	0.0	35.9	25.1
Czech Republic	2011	648	41.2	41.2	20.5	12.4	14.0	11.7	0.1	39.2	43.2
	2015	740	37.9	37.9	24.2	9.2	14.4	14.3	0.1	37.3	38.6
Denmark	2011	580	44.5	44.5	23.5	6.7	8.6	16.3	0.5	41.8	47.3
	2015	529	49.0	49.0	21.4	6.3	7.3	13.5	2.5	46.2	51.9
England	2011	483	45.8	45.8	24.2	10.1	12.2	7.0	0.7	45.1	46.5
	2015	578	49.9	49.9	20.7	10.9	10.5	7.8	0.2	52.2	47.4
Finland	2011	665	38.2	38.2	26.7	10.5	12.4	12.1	0.0	38.5	38.0
	2015	716	27.8	27.8	29.9	15.4	13.2	13.0	0.7	28.1	27.5
Georgia	2011	689	43.9	43.9	22.6	9.8	12.7	10.6	0.5	46.4	41.8
	2015	553	48.6	48.6	18.9	8.2	16.0	7.7	0.5	54.2	42.8
Germany	2011	567	34.2	34.2	20.6	13.4	16.4	14.9	0.4	35.6	32.8
	2015	556	28.0	28.0	20.8	14.4	13.9	22.7	0.2	25.8	30.0
Hong Kong SAR	2011	561	68.8	68.8	16.2	7.9	6.2	0.8	0.0	73.4	64.7
	2015	507	72.9	72.9	13.6	5.1	7.5	0.9	0.0	70.2	75.4
Hungary	2011	742	53.3	53.3	19.9	7.4	10.8	7.8	0.8	57.1	50.0
	2015	716	55.2	55.2	22.2	7.2	6.2	9.1	0.2	54.9	55.5
Iran, Islamic Rep. of	2011	824	30.2	30.2	16.9	13.0	19.6	19.5	0.8	32.4	28.2
	2015	539	27.0	27.0	24.3	13.3	17.1	17.4	0.9	28.6	25.4
Ireland	2011	648	32.3	32.3	26.8	13.6	15.4	11.2	0.6	34.0	30.8
	2015	617	35.6	35.6	27.9	12.8	13.5	10.1	0.0	37.2	34.3
Italy	2011	598	50.7	50.7	20.1	7.8	12.6	8.4	0.4	50.5	50.9
	2015	620	44.4	44.4	22.5	11.6	12.3	8.9	0.2	41.0	47.6
Japan	2011	634	52.3	52.3	24.1	14.8	6.6	2.1	0.0	51.4	53.2
	2015	629	55.2	55.2	24.6	8.9	7.6	3.6	0.0	55.3	55.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_06 (M041125): Number / Applying Type: MC Key: A  
Label: Rule to get numbers in column B

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	55.2	55.2	17.9	7.0	16.4	2.8	0.7	59.8	50.6
	2015	673	60.1	60.1	14.8	7.4	15.5	2.2	0.0	60.6	59.5
Korea, Rep. of	2011	620	64.4	64.4	22.1	7.5	4.5	1.5	0.0	65.6	63.4
	2015	674	56.7	56.7	24.7	10.6	6.5	1.5	0.0	52.5	60.5
Kuwait	2011	569	20.6	20.6	27.1	19.2	22.2	9.9	0.9	19.4	22.1
	2015	507	22.4	22.4	24.0	11.9	14.0	25.8	1.8	21.3	23.5
Lithuania	2011	692	47.4	47.4	23.3	8.9	15.0	5.0	0.4	48.2	46.8
	2015	638	48.0	48.0	19.7	10.0	15.4	7.0	0.0	45.3	50.5
Morocco	2011	917	22.3	22.3	35.6	20.1	22.0	0.0	0.0	22.5	22.2
	2015	727	21.4	21.4	32.6	19.9	17.4	7.5	1.2	18.1	24.1
Netherlands	2011	467	30.9	30.9	32.5	15.5	18.8	2.3	0.0	30.8	31.0
	2015	646	30.3	30.3	28.6	17.6	16.4	6.7	0.5	29.4	31.1
New Zealand	2011	805	32.5	32.5	25.1	16.7	18.6	6.8	0.4	31.9	33.0
	2015	894	35.4	35.4	24.1	12.7	18.7	7.7	1.4	33.9	36.9
Northern Ireland	2011	499	51.6	51.6	21.8	7.0	12.6	6.9	0.2	57.8	46.0
	2015	415	59.6	59.6	20.1	11.6	7.9	0.7	0.0	62.3	57.0
Oman	2011	1483	25.2	25.2	23.4	13.8	24.8	11.8	1.0	25.3	25.1
	2015	1308	33.4	33.4	24.2	13.8	22.1	5.9	0.6	34.2	32.6
Portugal	2011	581	45.5	45.5	20.4	11.9	17.5	4.5	0.1	43.9	47.3
	2015	668	45.4	45.4	24.7	9.4	14.2	6.3	0.0	47.0	43.7
Qatar	2011	596	31.6	31.6	24.0	13.3	22.3	8.0	0.8	27.3	35.1
	2015	751	34.1	34.1	22.5	13.7	18.4	10.6	0.8	34.5	33.6
Russian Federation	2011	644	57.7	57.7	18.6	7.4	10.3	5.8	0.2	59.5	55.9
	2015	713	62.9	62.9	18.2	5.4	9.6	3.9	0.0	66.0	59.9
Saudi Arabia	2011	655	34.7	34.7	25.2	15.4	21.4	2.8	0.5	36.6	32.8
	2015	606	25.7	25.7	25.8	15.7	23.2	7.6	2.0	25.5	25.9
Serbia	2011	620	49.9	49.9	17.1	7.9	11.4	13.4	0.2	51.6	48.5
	2015	571	48.5	48.5	20.4	6.4	12.5	11.6	0.6	47.8	49.1
Singapore	2011	907	61.7	61.7	19.8	8.4	9.3	0.8	0.0	60.1	63.1
	2015	931	65.8	65.8	18.7	8.3	6.4	0.7	0.1	67.3	64.4
Slovak Republic	2011	803	43.9	43.9	23.4	10.4	13.1	9.2	0.0	47.4	40.5
	2015	836	38.1	38.1	23.2	11.6	15.6	11.5	0.0	37.8	38.4
Slovenia	2011	637	30.7	30.7	24.9	8.5	19.8	15.9	0.1	30.9	30.6
	2015	639	38.6	38.6	20.5	9.8	17.7	13.0	0.3	37.4	39.9
Spain	2011	609	42.8	42.8	20.1	10.5	11.9	13.9	0.8	42.2	43.3
	2015	1099	36.4	36.4	24.2	11.5	14.7	13.0	0.2	34.1	38.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_06 (M041125): Number / Applying Type: MC Key: A  
Label: Rule to get numbers in column B

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	26.3	26.3	24.5	14.2	14.8	19.7	0.5	24.5	28.2
	2015	595	26.8	26.8	20.2	14.4	18.9	18.2	1.4	29.3	24.4
Turkey	2011	1075	45.2	45.2	19.8	12.2	18.2	4.6	0.0	48.5	42.3
	2015	924	45.6	45.6	21.3	12.9	16.2	3.7	0.3	44.0	47.1
United Arab Emirates	2011	2100	35.0	35.0	20.2	13.9	22.8	7.5	0.7	35.4	34.6
	2015	3019	39.0	39.0	24.5	12.1	19.0	5.3	0.1	39.2	38.7
United States	2011	1782	54.1	54.1	21.5	7.5	14.3	2.3	0.3	52.8	55.2
	2015	1430	52.0	52.0	23.7	8.8	13.4	1.7	0.3	51.0	53.1
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International Avg (n=40)	2011	30225	41.7	41.7	22.9	11.4	15.5	8.1	0.4	42.4	41.2
	2015	30633	42.4	42.4	23.0	11.3	14.2	8.7	0.5	42.5	42.2
-----											
Ontario, Canada	2011	638	38.8	38.8	26.3	12.6	19.1	2.4	0.8	39.6	37.9
	2015	644	40.3	40.3	27.1	10.5	16.7	3.7	1.8	37.1	43.6
Quebec, Canada	2011	613	38.7	38.7	24.5	13.5	13.2	9.5	0.6	38.5	38.9
	2015	388	38.9	38.9	26.3	13.8	13.6	7.2	0.2	35.1	42.6
Norway (4)	2011	442	29.8	29.8	25.2	12.4	17.3	14.8	0.6	27.9	32.4
	2015	590	27.5	27.5	25.9	16.7	15.9	12.2	1.8	25.1	29.7
Abu Dhabi, UAE	2011	603	34.4	34.4	17.6	16.0	24.8	6.0	1.1	34.1	34.7
	2015	708	29.9	29.9	29.7	15.5	20.1	4.7	0.1	29.1	30.6
Dubai, UAE	2011	870	38.0	38.0	22.6	11.5	19.6	7.9	0.3	37.8	38.2
	2015	1073	54.4	54.4	19.8	8.5	13.7	3.5	0.0	52.7	56.1
Florida, US	2011	390	56.2	56.2	21.2	7.9	13.2	1.3	0.2	55.5	56.8
	2015	292	56.3	56.3	17.1	9.5	14.3	2.0	0.8	55.4	57.3
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_07 (M041135): Geometric Shapes and Measures / Knowing Type: MC Key: A  
Label: A pair of parallel lines

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	83.9	83.9	6.6	4.8	3.5	0.9	0.4	84.9	83.0
	2015	868	77.8	77.8	8.0	3.6	5.4	5.0	0.1	80.7	75.2
Bahrain	2011	586	69.8	69.8	13.3	4.9	8.1	3.9	0.0	70.9	68.8
	2015	583	79.3	79.3	9.3	3.9	4.9	1.1	1.5	80.0	78.5
Belgium (Flemish)	2011	688	97.5	97.5	0.2	0.9	0.5	0.9	0.0	96.5	98.4
	2015	760	96.7	96.7	1.1	0.3	0.3	1.6	0.0	97.6	95.9
Chile	2011	789	75.1	75.1	7.4	5.0	9.1	1.4	1.9	72.4	77.7
	2015	677	67.7	67.7	10.2	8.8	9.2	2.4	1.8	70.2	65.2
Chinese Taipei	2011	614	93.3	93.3	1.1	3.8	0.7	1.0	0.0	95.5	91.4
	2015	611	95.6	95.6	0.3	2.0	0.7	1.4	0.1	96.2	95.0
Croatia	2011	659	89.2	89.2	2.5	4.1	2.9	1.4	0.0	90.5	87.9
	2015	570	86.3	86.3	3.8	4.2	3.2	2.4	0.0	90.3	82.6
Czech Republic	2011	648	93.1	93.1	1.0	2.1	2.0	1.7	0.1	92.5	93.6
	2015	740	91.1	91.1	1.7	3.9	1.4	1.7	0.2	92.5	89.6
Denmark	2011	580	81.7	81.7	4.5	3.0	4.6	5.4	0.7	79.8	83.8
	2015	530	81.9	81.9	5.1	2.8	3.1	3.9	3.2	83.6	80.1
England	2011	483	80.1	80.1	9.8	3.9	3.6	1.4	1.2	83.3	77.4
	2015	578	77.9	77.9	10.1	4.7	4.9	2.1	0.3	79.9	75.7
Finland	2011	665	85.1	85.1	5.3	6.1	1.7	1.8	0.0	87.6	82.9
	2015	716	82.4	82.4	5.8	5.2	3.5	2.3	0.8	82.9	82.1
Georgia	2011	689	53.5	53.5	13.7	11.9	12.2	7.8	1.0	55.6	51.8
	2015	553	50.5	50.5	15.1	11.5	17.4	4.9	0.6	51.6	49.3
Germany	2011	567	81.2	81.2	7.2	4.1	2.5	4.4	0.6	81.5	80.9
	2015	556	85.3	85.3	4.8	2.9	2.7	3.9	0.4	86.4	84.2
Hong Kong SAR	2011	561	97.5	97.5	1.1	1.3	0.1	0.0	0.0	98.7	96.4
	2015	507	98.8	98.8	0.0	1.0	0.2	0.0	0.0	99.1	98.7
Hungary	2011	742	83.9	83.9	4.3	6.9	2.9	1.3	0.8	85.3	82.6
	2015	716	84.6	84.6	4.5	5.5	2.6	2.2	0.6	82.7	86.5
Iran, Islamic Rep. of	2011	824	84.4	84.4	3.7	3.7	4.3	3.0	0.9	85.0	83.9
	2015	539	74.0	74.0	8.8	9.5	5.3	1.4	1.0	80.5	67.4
Ireland	2011	648	89.8	89.8	4.3	3.1	1.6	0.7	0.6	90.1	89.5
	2015	617	94.3	94.3	2.8	1.5	0.8	0.6	0.0	93.2	95.2
Italy	2011	598	86.8	86.8	4.2	4.3	2.6	1.6	0.6	85.3	88.4
	2015	620	86.7	86.7	5.7	2.8	3.5	0.9	0.5	87.8	85.7
Japan	2011	634	92.1	92.1	0.8	2.7	0.7	3.6	0.0	91.2	93.1
	2015	629	93.3	93.3	1.2	2.1	0.5	2.9	0.0	93.8	92.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_07 (M041135): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: A pair of parallel lines

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	74.2	74.2	2.8	10.3	10.8	1.3	0.7	77.1	71.2
	2015	673	82.8	82.8	4.4	5.4	7.1	0.4	0.0	87.0	78.8
Korea, Rep. of	2011	620	97.1	97.1	0.6	1.4	0.2	0.7	0.0	99.2	95.3
	2015	674	97.3	97.3	0.2	2.0	0.3	0.2	0.0	97.6	97.0
Kuwait	2011	577	67.1	67.1	9.8	6.9	9.5	5.6	1.2	71.9	61.3
	2015	507	59.6	59.6	9.8	7.5	10.2	10.3	2.6	63.4	55.9
Lithuania	2011	692	66.2	66.2	13.4	11.3	6.7	2.0	0.4	66.6	65.9
	2015	638	65.8	65.8	10.1	16.4	5.0	2.6	0.1	65.5	66.2
Morocco	2011	913	41.8	41.8	25.0	23.7	9.3	0.0	0.1	39.6	43.9
	2015	723	47.0	47.0	16.0	18.9	12.1	4.1	1.8	44.4	49.2
Netherlands	2011	467	53.3	53.3	23.7	5.6	15.2	2.1	0.0	55.7	51.1
	2015	646	53.8	53.8	24.6	5.4	12.9	2.8	0.5	50.9	56.5
New Zealand	2011	805	67.5	67.5	12.4	10.5	6.4	2.7	0.5	71.9	63.5
	2015	894	69.2	69.2	11.7	8.1	7.1	2.5	1.4	71.6	66.8
Northern Ireland	2011	499	81.7	81.7	7.4	4.0	4.3	2.3	0.3	82.6	80.8
	2015	443	88.2	88.2	5.0	3.2	2.7	0.9	0.0	88.8	87.6
Oman	2011	1483	68.8	68.8	7.8	9.7	9.6	2.8	1.3	70.4	67.3
	2015	1310	70.0	70.0	5.9	10.3	11.1	1.7	1.1	74.3	65.6
Portugal	2011	581	92.0	92.0	1.5	1.8	2.8	1.8	0.1	92.8	91.3
	2015	668	88.6	88.6	2.7	2.0	3.0	3.7	0.0	91.8	85.4
Qatar	2011	596	72.2	72.2	9.6	9.2	5.7	2.2	1.1	76.7	68.6
	2015	751	73.2	73.2	8.2	9.6	5.6	2.4	1.1	78.6	67.5
Russian Federation	2011	644	81.2	81.2	4.7	6.0	6.6	1.4	0.2	81.7	80.7
	2015	713	72.3	72.3	7.8	6.2	11.2	2.5	0.1	75.2	69.4
Saudi Arabia	2011	653	72.3	72.3	12.2	4.4	9.7	0.8	0.5	75.3	69.2
	2015	603	55.9	55.9	15.1	15.4	7.8	3.8	2.1	62.2	50.2
Serbia	2011	620	79.7	79.7	4.5	6.2	5.2	4.2	0.2	80.4	79.1
	2015	571	76.7	76.7	2.6	7.9	8.6	3.4	0.9	74.8	78.3
Singapore	2011	907	97.4	97.4	0.9	1.4	0.3	0.0	0.0	98.7	96.2
	2015	931	97.0	97.0	1.0	1.6	0.2	0.1	0.1	98.8	95.3
Slovak Republic	2011	803	63.8	63.8	8.8	19.8	4.4	3.0	0.2	62.5	65.1
	2015	836	66.2	66.2	8.1	18.2	3.7	3.6	0.2	66.1	66.4
Slovenia	2011	635	90.4	90.4	5.3	1.0	2.0	1.0	0.3	88.8	91.7
	2015	639	90.8	90.8	5.0	1.0	1.3	1.7	0.3	93.5	88.0
Spain	2011	609	80.7	80.7	5.4	1.7	7.2	3.9	1.1	78.6	82.6
	2015	1099	86.8	86.8	2.7	1.8	5.6	2.7	0.3	87.4	86.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_07 (M041135): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: A pair of parallel lines

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	57.1	57.1	14.0	8.3	12.4	7.4	0.8	57.1	57.0
	2015	595	61.3	61.3	9.8	7.5	12.3	7.5	1.6	62.4	60.5
Turkey	2011	1075	60.5	60.5	10.3	12.8	15.6	0.7	0.0	61.7	59.5
	2015	924	65.5	65.5	11.3	8.1	14.2	0.6	0.3	68.2	62.8
United Arab Emirates	2011	2100	68.1	68.1	11.8	8.0	8.4	2.7	1.0	72.9	63.5
	2015	3021	72.0	72.0	10.3	8.5	6.6	2.4	0.2	74.0	70.1
United States	2011	1782	91.6	91.6	2.3	1.6	2.3	1.7	0.5	94.3	89.3
	2015	1430	91.3	91.3	2.3	2.2	3.0	0.8	0.4	91.0	91.6
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International Avg (n=40)	2011	30225	78.6	78.6	7.1	6.1	5.5	2.3	0.5	79.6	77.6
	2015	30659	78.4	78.4	6.8	6.1	5.5	2.5	0.7	79.9	76.9
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Ontario, Canada	2011	638	84.7	84.7	6.9	2.9	3.5	0.9	1.2	83.2	86.3
	2015	644	85.3	85.3	6.3	2.7	3.0	0.6	2.0	85.1	85.9
Quebec, Canada	2011	613	88.8	88.8	3.3	4.7	0.4	1.7	1.0	91.8	86.2
	2015	386	95.4	95.4	1.3	2.5	0.3	0.1	0.4	94.5	96.3
Norway (4)	2011	442	77.9	77.9	9.4	4.8	4.8	2.5	0.6	79.9	75.0
	2015	590	70.5	70.5	13.4	6.2	5.4	2.5	2.0	68.0	72.8
Abu Dhabi, UAE	2011	603	63.4	63.4	13.1	9.1	10.0	3.2	1.1	67.4	59.4
	2015	710	64.2	64.2	14.3	12.3	6.5	2.6	0.3	66.1	62.5
Dubai, UAE	2011	870	69.9	69.9	11.1	6.9	9.0	2.6	0.5	73.3	67.1
	2015	1073	78.8	78.8	7.9	5.7	6.1	1.4	0.1	82.0	75.7
Florida, US	2011	390	85.9	85.9	4.6	1.0	7.4	0.7	0.4	87.8	84.3
	2015	292	90.7	90.7	1.4	1.1	3.7	2.3	0.8	90.3	91.0
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_08 (M041257): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Statements about a rectangle

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	41.6	30.7	26.4	0.8	0.4	41.6	41.7	41.6
	2015	868	36.6	34.8	27.5	1.0	0.1	36.6	38.8	34.7
Bahrain	2011	586	27.3	30.0	41.0	1.6	0.0	27.3	29.2	25.6
	2015	583	29.0	34.6	33.7	1.1	1.5	29.0	27.0	31.3
Belgium (Flemish)	2011	688	71.7	19.3	8.9	0.1	0.0	71.7	76.6	67.3
	2015	760	69.9	20.5	8.7	0.8	0.0	69.9	70.4	69.5
Chile	2011	789	34.8	31.5	29.7	1.8	2.1	34.8	34.6	35.0
	2015	676	33.0	32.7	30.4	1.9	2.0	33.0	33.5	32.5
Chinese Taipei	2011	614	71.8	19.7	8.0	0.5	0.0	71.8	75.8	68.4
	2015	611	81.4	13.0	5.3	0.2	0.1	81.4	83.5	79.4
Croatia	2011	659	53.4	27.7	18.4	0.5	0.0	53.4	56.2	50.6
	2015	570	53.2	30.4	15.7	0.8	0.0	53.2	55.6	50.9
Czech Republic	2011	648	38.3	32.9	25.1	3.5	0.1	38.3	37.4	39.2
	2015	739	38.5	35.1	23.7	2.5	0.2	38.5	41.3	35.4
Denmark	2011	580	48.4	25.9	21.2	3.5	1.0	48.4	49.8	46.8
	2015	530	58.9	18.2	18.0	1.3	3.6	58.9	61.2	56.5
England	2011	483	54.4	27.3	16.7	0.5	1.2	54.4	57.2	52.0
	2015	578	54.2	27.5	17.2	0.8	0.3	54.2	56.4	51.7
Finland	2011	665	40.2	27.6	31.3	1.0	0.0	40.2	45.5	35.8
	2015	716	42.0	23.5	32.6	1.2	0.8	42.0	48.6	35.9
Georgia	2011	689	22.6	19.3	50.9	5.8	1.4	22.6	22.4	22.8
	2015	553	24.7	24.2	43.8	6.7	0.6	24.7	23.6	25.7
Germany	2011	567	29.5	28.4	39.6	1.9	0.6	29.5	28.8	30.2
	2015	556	22.0	35.8	39.1	2.6	0.4	22.0	20.9	23.0
Hong Kong SAR	2011	561	74.1	11.6	14.1	0.2	0.0	74.1	73.3	74.8
	2015	507	75.8	8.1	16.1	0.0	0.0	75.8	79.0	72.8
Hungary	2011	742	34.3	33.4	31.0	0.5	0.8	34.3	40.4	29.0
	2015	716	33.7	29.4	36.4	0.0	0.6	33.7	30.4	36.9
Iran, Islamic Rep. of	2011	824	33.1	33.1	30.6	2.0	1.2	33.1	29.9	36.2
	2015	539	23.7	34.6	39.1	1.6	1.0	23.7	26.9	20.4
Ireland	2011	648	53.1	29.5	16.1	0.8	0.6	53.1	52.7	53.5
	2015	617	60.2	23.6	15.9	0.4	0.0	60.2	63.7	57.1
Italy	2011	598	52.0	22.9	22.4	2.0	0.7	52.0	52.1	51.9
	2015	620	51.6	25.0	22.4	0.5	0.5	51.6	48.8	54.2
Japan	2011	634	54.7	20.7	23.7	0.9	0.0	54.7	56.3	53.1
	2015	629	45.6	26.8	26.4	1.2	0.0	45.6	44.3	46.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_08 (M041257): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Statements about a rectangle

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	626	50.2	19.6	21.8	7.7	0.7	50.2	50.6	49.8
	2015	673	58.2	19.3	20.7	1.8	0.0	58.2	59.5	57.0
Korea, Rep. of	2011	620	88.0	8.3	2.9	0.9	0.0	88.0	89.0	87.1
	2015	674	85.3	12.7	1.9	0.0	0.0	85.3	85.1	85.5
Kuwait	2011	584	15.1	24.7	54.4	4.3	1.4	15.1	18.1	11.6
	2015	506	15.3	27.5	48.4	6.1	2.6	15.3	17.4	13.3
Lithuania	2011	692	35.6	34.3	28.9	0.8	0.4	35.6	37.1	34.3
	2015	638	40.7	29.0	28.7	1.6	0.1	40.7	39.0	42.2
Morocco	2011	1126	14.6	11.1	69.2	4.0	1.2	14.6	14.3	14.9
	2015	730	14.1	17.3	65.0	1.8	1.8	14.1	13.9	14.2
Netherlands	2011	467	23.8	35.6	40.7	0.0	0.0	23.8	24.0	23.5
	2015	641	22.3	40.3	36.1	0.7	0.5	22.3	23.1	21.6
New Zealand	2011	805	18.1	41.0	38.8	1.4	0.8	18.1	19.5	16.8
	2015	894	23.8	38.5	34.0	2.1	1.5	23.8	22.6	25.1
Northern Ireland	2011	499	62.5	21.0	15.6	0.5	0.3	62.5	59.4	65.3
	2015	448	62.9	24.4	12.4	0.2	0.0	62.9	62.4	63.4
Oman	2011	1483	19.6	26.1	49.2	3.7	1.3	19.6	20.3	18.9
	2015	1314	25.7	32.6	38.5	2.0	1.2	25.7	26.3	25.0
Portugal	2011	581	44.2	34.0	21.3	0.4	0.1	44.2	46.1	42.1
	2015	668	54.5	28.0	16.6	1.0	0.0	54.5	57.1	51.9
Qatar	2011	596	23.0	33.6	40.9	1.4	1.2	23.0	23.3	22.8
	2015	751	28.5	33.9	34.4	2.0	1.2	28.5	31.0	25.8
Russian Federation	2011	644	55.1	24.7	17.9	2.1	0.2	55.1	60.5	49.8
	2015	713	57.6	32.6	8.9	0.8	0.1	57.6	62.2	52.9
Saudi Arabia	2011	656	26.5	27.2	42.7	3.0	0.6	26.5	27.1	25.8
	2015	607	19.4	15.1	59.9	3.3	2.3	19.4	25.9	13.7
Serbia	2011	620	40.0	33.0	24.9	1.8	0.3	40.0	44.6	36.3
	2015	571	36.6	37.9	23.3	1.4	0.9	36.6	36.9	36.3
Singapore	2011	907	76.7	18.1	5.2	0.0	0.0	76.7	80.5	73.2
	2015	931	80.2	15.5	4.0	0.2	0.1	80.2	82.9	77.7
Slovak Republic	2011	803	41.6	33.4	23.3	1.5	0.2	41.6	40.2	43.0
	2015	836	22.8	45.8	29.7	1.4	0.3	22.8	21.2	24.4
Slovenia	2011	638	42.9	30.5	24.8	1.4	0.3	42.9	45.7	40.6
	2015	639	47.4	28.3	22.2	1.8	0.3	47.4	49.2	45.5
Spain	2011	609	40.2	26.2	30.7	1.8	1.1	40.2	39.9	40.5
	2015	1099	50.0	19.6	28.7	1.4	0.3	50.0	45.5	54.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M05\_08 (M041257): Geometric Shapes and Measures / Knowing      Type: CR    1 Point  
Label: Statements about a rectangle

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	29.2	34.0	33.4	2.3	1.1	29.2	30.6	27.8
	2015	595	33.8	30.6	32.8	1.1	1.6	33.8	33.8	34.0
Turkey	2011	1075	38.4	32.5	27.9	1.2	0.0	38.4	38.2	38.5
	2015	924	45.8	28.7	24.5	0.7	0.3	45.8	49.0	42.6
United Arab Emirates	2011	2100	22.4	34.8	40.2	1.6	1.0	22.4	23.2	21.6
	2015	3020	29.2	33.6	35.4	1.5	0.2	29.2	30.0	28.5
United States	2011	1782	52.4	28.3	17.5	1.2	0.6	52.4	52.3	52.5
	2015	1430	56.2	24.6	18.2	0.6	0.4	56.2	58.8	53.4
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International Avg (n=40)	2011	30449	42.4	27.1	28.2	1.8	0.6	42.4	43.6	41.3
	2015	30670	43.6	27.3	26.9	1.4	0.7	43.6	44.7	42.6
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Ontario, Canada	2011	638	54.4	29.6	14.2	0.7	1.2	54.4	53.9	54.8
	2015	346	55.3	33.0	10.8	0.7	0.2	55.3	62.6	48.0
Quebec, Canada	2011	613	59.7	26.0	12.3	1.1	1.0	59.7	60.5	59.0
	2015	321	60.7	24.2	14.0	0.9	0.1	60.7	57.3	64.1
Norway (4)	2011	442	38.9	23.3	35.1	2.0	0.7	38.9	41.9	34.8
	2015	590	31.5	27.6	36.7	2.1	2.1	31.5	33.2	29.9
Abu Dhabi, UAE	2011	603	17.8	32.1	47.6	1.5	1.1	17.8	19.1	16.4
	2015	710	23.9	29.8	43.7	2.3	0.3	23.9	21.8	25.7
Dubai, UAE	2011	870	27.2	38.3	32.4	1.5	0.5	27.2	28.6	26.0
	2015	1073	40.5	35.6	23.2	0.6	0.1	40.5	41.9	39.2
Florida, US	2011	390	43.2	27.3	28.5	0.5	0.4	43.2	43.5	42.8
	2015	292	62.9	19.1	15.6	1.6	0.8	62.9	63.8	61.9
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_09 (M041268): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the length of side A

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	35.8	22.3	35.8	22.6	14.1	4.3	0.9	34.0	37.5
	2015	868	33.0	23.7	33.0	27.1	13.3	2.8	0.1	32.7	33.2
Bahrain	2011	586	25.3	29.7	25.3	21.9	18.7	4.4	0.0	24.6	25.9
	2015	583	30.3	22.5	30.3	22.8	21.1	1.8	1.5	27.2	33.9
Belgium (Flemish)	2011	688	36.1	20.2	36.1	27.2	15.2	1.2	0.0	36.1	36.2
	2015	760	37.9	19.5	37.9	24.3	13.4	4.8	0.1	35.7	40.0
Chile	2011	789	28.1	23.3	28.1	25.3	14.6	5.8	2.8	27.2	29.0
	2015	676	30.1	23.0	30.1	23.7	15.5	5.6	2.2	28.2	32.1
Chinese Taipei	2011	614	47.7	14.9	47.7	16.2	20.5	0.7	0.0	44.7	50.2
	2015	611	47.5	13.4	47.5	17.0	21.1	0.9	0.1	46.7	48.3
Croatia	2011	659	29.8	22.1	29.8	18.7	16.1	13.4	0.0	28.5	31.0
	2015	570	30.8	23.6	30.8	18.0	20.5	7.1	0.0	29.5	32.0
Czech Republic	2011	648	30.8	23.5	30.8	16.8	20.5	8.2	0.2	28.0	33.4
	2015	740	34.3	24.6	34.3	15.2	17.3	8.2	0.3	32.8	35.8
Denmark	2011	580	35.6	22.4	35.6	18.1	11.8	10.4	1.6	34.7	36.7
	2015	530	40.5	20.3	40.5	15.1	10.9	9.2	4.0	37.6	43.6
England	2011	483	39.9	19.9	39.9	19.3	14.2	5.5	1.2	40.9	39.1
	2015	578	39.5	18.3	39.5	20.1	17.8	3.9	0.4	40.5	38.4
Finland	2011	665	42.4	19.1	42.4	20.0	12.4	6.1	0.0	41.5	43.2
	2015	716	43.6	14.9	43.6	19.3	15.2	6.0	1.0	44.7	42.6
Georgia	2011	689	31.2	22.2	31.2	21.2	17.2	6.4	1.9	30.7	31.6
	2015	553	32.1	22.6	32.1	21.5	14.7	8.5	0.6	35.2	28.9
Germany	2011	567	31.9	26.7	31.9	19.6	13.7	7.6	0.6	34.1	29.7
	2015	556	30.1	23.7	30.1	18.9	13.7	13.1	0.4	26.7	33.3
Hong Kong SAR	2011	561	59.0	16.0	59.0	15.7	8.9	0.4	0.0	57.2	60.7
	2015	507	62.6	13.4	62.6	13.5	10.3	0.2	0.0	62.0	63.1
Hungary	2011	742	26.9	22.6	26.9	24.5	19.6	5.6	0.8	24.1	29.4
	2015	716	35.1	15.2	35.1	24.7	20.7	3.7	0.6	32.3	37.9
Iran, Islamic Rep. of	2011	824	23.4	29.3	23.4	16.8	20.7	8.5	1.3	23.7	23.0
	2015	539	24.4	32.1	24.4	17.6	18.4	6.5	1.0	20.4	28.5
Ireland	2011	648	35.4	22.3	35.4	23.2	15.0	3.6	0.6	34.2	36.5
	2015	617	35.0	22.0	35.0	20.9	19.9	2.2	0.0	31.5	38.1
Italy	2011	598	30.9	23.1	30.9	18.8	17.5	8.7	1.1	30.0	31.8
	2015	620	33.0	22.9	33.0	17.6	18.2	7.8	0.5	27.0	38.7
Japan	2011	634	42.5	18.1	42.5	17.1	20.9	1.2	0.1	38.3	46.9
	2015	629	45.0	19.3	45.0	14.9	19.7	1.2	0.0	39.9	50.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_09 (M041268): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the length of side A

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	40.7	20.8	40.7	17.5	16.9	3.4	0.7	39.5	41.9
	2015	673	49.3	20.5	49.3	15.4	12.9	1.7	0.2	49.6	49.0
Korea, Rep. of	2011	620	65.7	13.5	65.7	10.5	9.2	1.0	0.2	67.1	64.5
	2015	674	70.4	11.6	70.4	8.3	9.0	0.6	0.0	67.8	72.8
Kuwait	2011	577	25.7	23.2	25.7	21.0	19.5	8.7	1.8	25.3	26.1
	2015	506	24.3	27.7	24.3	13.8	17.3	13.8	3.1	22.2	26.4
Lithuania	2011	692	37.1	30.7	37.1	17.3	9.1	5.3	0.4	34.3	39.5
	2015	638	33.6	25.2	33.6	21.1	12.9	7.1	0.1	31.5	35.6
Morocco	2011	931	25.5	31.8	25.5	22.4	20.2	0.1	0.0	23.3	27.7
	2015	727	21.6	26.4	21.6	23.2	20.8	6.0	2.0	22.5	20.8
Netherlands	2011	467	33.9	22.4	33.9	28.4	12.4	2.9	0.0	33.7	34.1
	2015	641	35.0	22.6	35.0	24.1	12.7	5.0	0.5	31.1	38.6
New Zealand	2011	805	31.5	25.9	31.5	26.5	12.8	2.6	0.8	30.9	32.1
	2015	894	32.4	25.8	32.4	22.4	12.2	5.6	1.5	29.3	35.5
Northern Ireland	2011	499	44.1	19.9	44.1	19.2	13.3	3.1	0.3	39.7	48.0
	2015	437	52.1	21.4	52.1	13.5	12.4	0.5	0.0	53.6	50.7
Oman	2011	1483	25.0	24.9	25.0	23.4	20.7	4.1	1.9	22.8	27.0
	2015	1310	28.0	23.3	28.0	25.1	18.8	3.9	1.0	29.0	27.0
Portugal	2011	581	42.8	13.5	42.8	24.9	15.9	2.8	0.1	36.9	49.0
	2015	668	34.1	20.3	34.1	24.7	15.9	4.8	0.2	33.9	34.4
Qatar	2011	596	29.6	28.1	29.6	21.1	15.7	4.3	1.2	27.5	31.2
	2015	751	25.0	26.3	25.0	25.2	16.3	5.5	1.6	23.2	26.9
Russian Federation	2011	643	45.0	22.0	45.0	15.3	12.5	4.8	0.3	40.2	49.8
	2015	713	52.8	17.9	52.8	14.5	11.7	3.0	0.1	51.8	53.8
Saudi Arabia	2011	654	27.8	33.2	27.8	22.5	13.7	2.2	0.6	23.1	32.6
	2015	604	25.2	27.1	25.2	21.9	18.3	5.1	2.5	24.4	26.0
Serbia	2011	620	34.3	23.1	34.3	19.6	11.5	11.1	0.4	32.1	36.1
	2015	571	34.7	24.8	34.7	18.1	10.4	11.2	0.9	32.3	36.6
Singapore	2011	907	65.9	13.0	65.9	13.5	7.3	0.4	0.0	64.5	67.2
	2015	931	67.8	11.0	67.8	11.5	8.9	0.7	0.1	68.8	66.9
Slovak Republic	2011	803	33.7	32.4	33.7	17.4	11.0	5.2	0.3	34.0	33.4
	2015	836	33.2	23.7	33.2	19.8	15.7	7.3	0.3	30.4	36.0
Slovenia	2011	637	33.8	28.2	33.8	18.3	9.3	10.1	0.3	31.8	35.5
	2015	639	39.4	24.9	39.4	15.6	11.3	8.5	0.3	40.2	38.6
Spain	2011	609	29.4	20.7	29.4	20.9	18.2	9.8	1.1	27.0	31.6
	2015	1099	35.4	16.2	35.4	18.0	19.4	10.5	0.5	27.3	43.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_09 (M041268): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the length of side A

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	36.4	18.6	36.4	21.3	12.2	9.9	1.6	37.8	34.9
	2015	595	40.8	19.1	40.8	18.1	12.4	7.6	1.9	41.2	40.5
Turkey	2011	1075	32.3	25.1	32.3	18.6	19.6	4.0	0.4	35.1	29.9
	2015	924	37.4	22.0	37.4	19.9	17.1	3.3	0.3	35.7	39.0
United Arab Emirates	2011	2100	28.1	27.2	28.1	22.7	16.1	4.8	1.1	26.2	30.0
	2015	3020	32.1	23.8	32.1	22.3	17.6	3.9	0.3	30.0	34.1
United States	2011	1782	37.5	21.3	37.5	19.7	18.0	2.8	0.6	38.5	36.6
	2015	1430	39.0	21.5	39.0	20.1	17.0	2.0	0.5	35.9	42.4
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International Avg (n=40)	2011	30245	36.0	22.9	36.0	20.1	15.2	5.1	0.7	34.6	37.3
	2015	30650	37.7	21.5	37.7	19.2	15.6	5.3	0.8	36.1	39.3
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Ontario, Canada	2011	638	36.3	21.5	36.3	22.6	16.2	2.2	1.2	37.2	35.4
	2015	644	36.9	19.5	36.9	20.1	18.2	3.0	2.3	33.5	40.5
Quebec, Canada	2011	613	29.5	18.9	29.5	28.1	15.3	7.1	1.0	22.8	35.4
	2015	389	29.7	19.9	29.7	23.6	20.8	5.6	0.4	22.6	36.5
Norway (4)	2011	442	26.5	27.3	26.5	25.7	11.1	7.9	1.5	23.0	31.2
	2015	590	31.8	25.6	31.8	22.9	11.5	5.8	2.4	28.9	34.5
Abu Dhabi, UAE	2011	603	25.0	29.2	25.0	22.8	16.8	5.1	1.1	24.6	25.3
	2015	709	24.8	26.3	24.8	21.9	21.8	4.6	0.6	22.0	27.3
Dubai, UAE	2011	870	32.1	25.5	32.1	21.2	15.1	5.6	0.5	28.7	34.9
	2015	1073	40.8	22.3	40.8	22.3	12.5	2.0	0.1	38.1	43.5
Florida, US	2011	390	33.1	29.4	33.1	21.0	14.4	1.6	0.4	33.8	32.5
	2015	292	47.3	17.0	47.3	16.0	16.7	1.9	1.1	43.9	50.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_10 (M041151): Geometric Shapes and Measures / Reasoning      Type: MC      Key: C  
Label: Shape makes a cube when folded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	91.1	1.9	3.1	91.1	1.7	1.3	0.9	93.5	88.8
	2015	868	89.9	2.6	4.2	89.9	1.9	1.3	0.1	88.7	91.0
Bahrain	2011	586	55.4	11.3	16.5	55.4	14.0	2.6	0.2	61.5	49.8
	2015	585	58.5	11.1	14.2	58.5	13.1	1.3	1.8	61.4	55.3
Belgium (Flemish)	2011	688	37.9	19.9	20.6	37.9	19.7	1.9	0.0	37.4	38.4
	2015	760	35.2	17.4	25.3	35.2	18.2	3.5	0.3	34.9	35.5
Chile	2011	789	79.7	4.2	4.8	79.7	7.7	0.5	3.2	78.0	81.2
	2015	676	85.0	4.9	1.8	85.0	4.1	1.6	2.6	84.5	85.6
Chinese Taipei	2011	614	61.3	9.2	15.5	61.3	10.9	3.1	0.0	61.4	61.2
	2015	611	63.0	7.1	17.4	63.0	9.9	2.5	0.1	63.1	62.8
Croatia	2011	659	43.2	11.1	23.3	43.2	17.8	4.5	0.2	41.3	45.1
	2015	570	42.4	11.5	23.7	42.4	20.4	1.9	0.0	41.2	43.6
Czech Republic	2011	648	46.1	12.6	19.8	46.1	16.7	4.6	0.2	45.3	46.8
	2015	740	64.3	6.2	14.0	64.3	11.7	3.3	0.5	66.1	62.2
Denmark	2011	580	67.6	7.5	12.0	67.6	7.4	3.4	2.1	68.3	66.9
	2015	530	66.0	7.9	11.4	66.0	6.2	3.8	4.6	69.4	62.6
England	2011	483	86.9	4.1	2.7	86.9	3.8	0.8	1.7	87.6	86.4
	2015	578	87.7	3.8	2.8	87.7	4.4	0.7	0.4	87.1	88.4
Finland	2011	665	74.9	5.5	9.7	74.9	7.9	1.9	0.0	81.0	69.8
	2015	716	65.3	6.0	12.7	65.3	11.6	2.9	1.5	66.6	64.2
Georgia	2011	688	40.3	20.5	12.6	40.3	19.9	4.6	2.1	41.7	39.2
	2015	553	50.8	12.5	16.1	50.8	16.6	2.6	1.3	49.7	52.0
Germany	2011	567	83.6	2.4	1.4	83.6	2.3	9.6	0.8	83.8	83.4
	2015	556	81.7	3.0	3.3	81.7	3.4	7.8	0.8	84.0	79.5
Hong Kong SAR	2011	561	75.5	5.6	10.5	75.5	8.0	0.5	0.0	73.8	77.0
	2015	507	76.0	4.4	13.5	76.0	5.8	0.3	0.0	76.8	75.3
Hungary	2011	742	74.2	6.4	8.1	74.2	7.7	2.3	1.4	73.9	74.4
	2015	716	75.9	5.7	7.9	75.9	6.0	3.5	1.0	76.2	75.6
Iran, Islamic Rep. of	2011	824	63.0	10.4	13.4	63.0	7.8	3.2	2.3	65.4	60.6
	2015	539	66.4	8.3	12.9	66.4	8.7	2.2	1.5	70.7	62.1
Ireland	2011	648	77.1	3.0	13.3	77.1	4.7	1.1	0.6	79.9	74.6
	2015	617	87.7	2.8	5.7	87.7	3.0	0.7	0.0	88.9	86.6
Italy	2011	598	56.7	8.4	18.1	56.7	13.7	1.7	1.3	55.1	58.3
	2015	620	62.3	7.2	18.7	62.3	9.7	1.2	0.9	62.9	61.7
Japan	2011	634	88.9	1.0	0.8	88.9	3.0	6.2	0.1	87.0	90.8
	2015	629	91.9	1.1	0.3	91.9	1.5	5.1	0.0	91.8	92.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_10 (M041151): Geometric Shapes and Measures / Reasoning      Type: MC      Key: C  
Label: Shape makes a cube when folded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	41.0	16.4	14.7	41.0	24.9	2.2	0.8	41.6	40.4
	2015	673	63.0	13.8	9.5	63.0	12.6	0.9	0.2	61.5	64.4
Korea, Rep. of	2011	620	59.9	5.2	23.3	59.9	11.2	0.1	0.2	57.9	61.7
	2015	674	68.3	6.9	12.7	68.3	10.7	1.4	0.0	65.5	70.9
Kuwait	2011	577	23.1	23.0	20.1	23.1	24.2	7.3	2.4	22.9	23.3
	2015	507	24.7	18.7	24.2	24.7	18.8	8.9	4.7	22.8	26.5
Lithuania	2011	692	84.2	5.1	4.2	84.2	5.2	1.0	0.4	83.4	84.8
	2015	638	84.1	5.2	4.5	84.1	3.8	2.0	0.4	84.6	83.6
Morocco	2011	955	62.8	10.0	12.5	62.8	14.6	0.1	0.0	61.2	64.3
	2015	723	64.5	8.7	10.2	64.5	11.3	3.1	2.2	64.5	64.6
Netherlands	2011	467	76.9	7.0	8.6	76.9	5.7	1.5	0.2	76.8	77.1
	2015	641	79.7	4.1	6.3	79.7	5.7	3.3	0.9	78.6	80.7
New Zealand	2011	805	79.3	5.7	7.1	79.3	5.2	1.9	0.8	78.2	80.3
	2015	894	84.4	3.1	5.6	84.4	4.5	0.8	1.6	84.6	84.2
Northern Ireland	2011	499	82.6	4.8	6.8	82.6	4.3	1.1	0.3	83.0	82.2
	2015	443	88.8	2.0	4.0	88.8	3.6	1.6	0.0	95.1	83.0
Oman	2011	1483	36.7	15.1	21.4	36.7	20.2	4.3	2.3	41.2	32.5
	2015	1305	44.5	11.1	19.7	44.5	22.1	1.6	1.0	46.4	42.5
Portugal	2011	581	87.6	5.0	1.8	87.6	2.9	2.5	0.3	90.9	84.1
	2015	668	80.0	7.5	5.7	80.0	4.5	1.4	0.8	75.7	84.3
Qatar	2011	596	42.5	12.9	24.1	42.5	16.3	2.9	1.2	42.9	42.1
	2015	751	49.6	12.0	16.8	49.6	16.3	3.4	1.9	53.3	45.7
Russian Federation	2011	644	52.1	12.4	18.5	52.1	14.3	2.4	0.3	51.4	52.7
	2015	713	62.8	8.7	14.3	62.8	11.4	2.7	0.1	69.1	56.6
Saudi Arabia	2011	655	45.4	15.9	17.7	45.4	19.2	1.1	0.8	51.8	38.8
	2015	600	42.5	14.9	15.0	42.5	17.2	7.8	2.6	48.5	37.2
Serbia	2011	620	85.1	3.1	4.4	85.1	2.7	4.1	0.5	89.4	81.6
	2015	571	84.4	3.4	4.1	84.4	4.4	2.9	0.9	88.6	81.0
Singapore	2011	907	67.5	4.8	21.4	67.5	5.9	0.5	0.0	66.5	68.4
	2015	931	70.1	3.9	19.6	70.1	5.9	0.3	0.2	73.4	67.1
Slovak Republic	2011	803	39.8	18.7	18.7	39.8	18.2	4.1	0.5	39.2	40.5
	2015	836	37.1	19.6	20.7	37.1	18.4	4.0	0.3	33.5	40.6
Slovenia	2011	635	63.2	8.2	14.8	63.2	10.8	2.0	1.0	69.4	58.1
	2015	639	63.4	8.1	15.7	63.4	10.3	2.0	0.6	65.4	61.5
Spain	2011	609	53.0	8.2	21.2	53.0	13.6	2.6	1.4	51.3	54.6
	2015	1099	62.4	7.3	18.3	62.4	8.5	2.6	0.9	61.9	62.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_10 (M041151): Geometric Shapes and Measures / Reasoning      Type: MC      Key: C  
Label: Shape makes a cube when folded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	63.7	5.8	17.9	63.7	8.1	2.7	1.7	62.0	65.6
	2015	595	69.4	5.1	15.7	69.4	4.6	3.3	2.1	72.3	66.6
Turkey	2011	1075	58.9	9.2	17.3	58.9	13.1	1.2	0.4	61.3	56.9
	2015	924	67.4	9.1	13.4	67.4	8.6	1.1	0.3	70.8	64.1
United Arab Emirates	2011	2100	51.4	11.0	19.1	51.4	14.7	2.6	1.2	57.7	45.3
	2015	3020	58.5	9.0	16.8	58.5	12.6	2.6	0.4	60.5	56.7
United States	2011	1782	70.9	3.7	16.5	70.9	6.1	1.8	1.0	72.2	69.8
	2015	1430	62.3	4.7	22.9	62.3	8.2	1.1	0.7	64.5	60.0
-----											
International Avg (n=40)	2011	30268	63.3	8.9	13.5	63.3	10.9	2.6	0.9	64.2	62.4
	2015	30646	66.6	7.8	12.5	66.6	9.5	2.6	1.0	67.6	65.5
-----											
Ontario, Canada	2011	638	81.6	4.9	7.9	81.6	3.0	1.0	1.6	82.5	80.6
	2015	644	81.2	3.6	8.2	81.2	3.1	1.3	2.7	79.4	83.0
Quebec, Canada	2011	613	72.2	9.8	7.0	72.2	7.0	2.5	1.4	67.5	76.4
	2015	387	90.1	4.8	2.1	90.1	2.0	0.5	0.5	91.6	88.6
Norway (4)	2011	442	72.2	5.6	12.5	72.2	6.0	1.5	2.3	68.6	77.1
	2015	590	70.0	6.2	13.3	70.0	5.7	2.0	2.8	70.9	69.3
Abu Dhabi, UAE	2011	603	49.3	13.2	18.6	49.3	15.3	2.4	1.2	58.3	40.4
	2015	710	52.3	12.2	19.1	52.3	13.1	2.7	0.7	52.2	52.3
Dubai, UAE	2011	870	55.8	7.9	20.4	55.8	13.6	1.5	0.8	57.4	54.6
	2015	1072	71.0	5.1	12.9	71.0	8.6	2.2	0.2	73.1	69.0
Florida, US	2011	390	70.5	3.9	16.5	70.5	6.3	2.4	0.4	75.6	66.0
	2015	292	57.5	3.9	27.1	57.5	8.8	1.6	1.1	60.9	53.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_l1 (M041264): Geometric Shapes and Measures / Applying      Type: MC      Key: A  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	70.8	70.8	11.4	9.3	5.3	2.1	1.0	70.9	70.8
	2015	868	74.0	74.0	10.8	6.0	6.9	2.1	0.2	73.5	74.4
Bahrain	2011	586	44.2	44.2	24.7	16.5	11.4	3.0	0.2	39.4	48.7
	2015	585	52.7	52.7	18.9	15.7	9.3	1.6	1.8	55.5	49.6
Belgium (Flemish)	2011	688	61.6	61.6	16.0	12.3	9.5	0.4	0.2	60.0	63.0
	2015	760	65.6	65.6	12.2	11.8	9.1	0.9	0.3	66.0	65.2
Chile	2011	789	40.8	40.8	26.3	18.1	8.2	3.2	3.3	38.2	43.3
	2015	676	38.6	38.6	25.3	20.0	8.3	4.4	3.4	36.9	40.3
Chinese Taipei	2011	614	67.7	67.7	7.9	19.3	3.5	1.1	0.5	68.3	67.2
	2015	611	78.3	78.3	8.4	9.4	3.3	0.5	0.1	80.7	76.0
Croatia	2011	659	41.5	41.5	21.3	20.2	7.8	8.9	0.4	39.2	43.8
	2015	570	53.9	53.9	18.8	17.1	6.2	3.9	0.0	51.0	56.5
Czech Republic	2011	648	51.6	51.6	18.6	17.3	7.2	5.1	0.2	49.6	53.5
	2015	740	54.7	54.7	17.4	18.6	5.8	3.1	0.5	54.6	54.7
Denmark	2011	580	60.7	60.7	9.7	17.3	4.0	6.1	2.2	58.9	62.7
	2015	530	67.1	67.1	5.9	14.8	4.2	2.8	5.2	68.0	66.2
England	2011	483	54.7	54.7	14.1	20.0	6.6	3.0	1.7	55.5	54.0
	2015	578	58.6	58.6	15.5	16.6	8.1	0.8	0.4	58.1	59.3
Finland	2011	665	46.3	46.3	13.8	30.8	4.2	4.9	0.0	47.4	45.4
	2015	716	48.2	48.2	15.7	26.2	4.5	4.0	1.5	51.9	44.8
Georgia	2011	688	33.4	33.4	22.6	27.2	7.6	6.6	2.6	35.2	32.0
	2015	553	30.5	30.5	22.7	28.2	8.6	8.7	1.3	26.9	34.2
Germany	2011	567	55.3	55.3	14.1	20.1	6.9	2.8	0.8	56.7	53.9
	2015	556	60.4	60.4	16.8	13.4	4.6	4.0	0.8	60.2	60.7
Hong Kong SAR	2011	561	75.0	75.0	7.2	13.5	4.0	0.4	0.0	72.9	76.9
	2015	507	78.6	78.6	5.6	12.6	3.0	0.1	0.0	80.8	76.7
Hungary	2011	742	54.0	54.0	15.0	18.7	7.1	3.5	1.7	53.1	54.7
	2015	716	55.9	55.9	15.4	19.8	5.9	2.0	1.0	53.4	58.4
Iran, Islamic Rep. of	2011	824	43.5	43.5	18.6	16.9	13.0	5.4	2.6	40.9	46.1
	2015	539	44.5	44.5	27.1	14.7	6.5	5.3	1.9	36.0	53.2
Ireland	2011	648	63.9	63.9	13.3	11.1	9.8	1.2	0.7	65.3	62.5
	2015	617	71.6	71.6	12.3	9.5	5.8	0.3	0.5	75.5	68.3
Italy	2011	598	45.6	45.6	23.4	15.8	6.7	7.2	1.3	45.5	45.7
	2015	620	41.5	41.5	26.0	20.8	5.8	5.0	0.9	32.4	50.1
Japan	2011	634	78.7	78.7	7.7	10.2	2.6	0.7	0.1	79.9	77.5
	2015	629	75.5	75.5	7.7	12.3	3.6	1.0	0.0	75.8	75.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M05\_11 (M041264): Geometric Shapes and Measures / Applying      Type: MC      Key: A  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	628	46.9	46.9	21.9	20.6	6.9	2.9	0.8	46.3	47.5
	2015	673	50.3	50.3	17.7	24.1	6.3	1.3	0.2	50.7	50.0
Korea, Rep. of	2011	620	45.0	45.0	7.9	43.5	3.3	0.1	0.2	46.2	44.0
	2015	674	21.7	21.7	9.4	62.7	5.8	0.4	0.0	20.9	22.5
Kuwait	2011	576	25.4	25.4	29.0	17.5	18.8	6.3	3.0	26.5	24.1
	2015	507	30.0	30.0	27.7	18.3	9.3	9.6	5.1	28.2	31.8
Lithuania	2011	692	59.3	59.3	14.4	20.8	4.0	1.1	0.5	56.8	61.4
	2015	638	52.1	52.1	13.6	24.0	5.8	4.0	0.4	49.4	54.7
Morocco	2011	968	35.7	35.7	26.1	24.4	13.2	0.3	0.1	33.2	38.1
	2015	727	35.2	35.2	25.7	18.7	13.5	4.0	2.9	32.5	37.4
Netherlands	2011	467	62.7	62.7	10.5	20.8	5.1	0.4	0.4	63.7	61.8
	2015	641	65.8	65.8	10.0	13.1	8.1	2.1	0.9	64.5	67.0
New Zealand	2011	805	53.1	53.1	23.2	12.1	8.6	2.3	0.8	53.4	52.8
	2015	894	57.5	57.5	16.8	13.3	8.6	2.1	1.7	57.3	57.6
Northern Ireland	2011	499	73.7	73.7	10.8	8.5	4.8	1.9	0.3	79.3	68.8
	2015	440	71.0	71.0	13.0	11.1	5.0	0.0	0.0	72.4	69.7
Oman	2011	1483	36.0	36.0	28.5	17.2	12.2	3.3	2.8	37.2	34.9
	2015	1313	47.3	47.3	24.5	14.5	10.4	2.1	1.2	47.9	46.7
Portugal	2011	581	51.2	51.2	14.5	27.7	5.3	0.7	0.5	52.6	49.8
	2015	668	58.2	58.2	11.4	21.1	7.3	1.1	0.8	55.1	61.3
Qatar	2011	596	38.7	38.7	28.7	19.8	9.3	2.3	1.3	37.1	40.0
	2015	751	49.2	49.2	22.9	12.0	9.3	4.3	2.4	46.1	52.5
Russian Federation	2011	644	60.1	60.1	14.1	16.0	5.3	4.2	0.3	61.7	58.6
	2015	713	60.2	60.2	14.0	16.6	5.9	3.2	0.1	61.2	59.2
Saudi Arabia	2011	655	38.5	38.5	28.8	16.5	12.5	2.6	1.2	39.1	37.9
	2015	605	33.3	33.3	26.7	17.7	14.8	4.7	2.9	33.9	32.7
Serbia	2011	620	42.9	42.9	21.0	23.6	6.6	5.4	0.5	45.6	40.7
	2015	570	52.0	52.0	15.6	18.5	7.0	5.9	1.0	48.0	55.2
Singapore	2011	907	45.1	45.1	11.4	34.1	9.0	0.3	0.0	46.1	44.1
	2015	931	52.1	52.1	9.9	30.0	7.5	0.4	0.2	53.1	51.2
Slovak Republic	2011	803	53.8	53.8	16.4	20.8	5.5	2.8	0.6	51.7	55.9
	2015	836	48.6	48.6	19.9	20.4	6.0	4.6	0.5	48.5	48.7
Slovenia	2011	638	47.1	47.1	17.3	24.1	6.3	4.0	1.2	46.9	47.3
	2015	639	50.3	50.3	18.5	22.0	3.6	5.1	0.6	48.1	52.5
Spain	2011	609	43.6	43.6	20.4	19.4	7.9	7.1	1.7	41.4	45.7
	2015	1099	53.4	53.4	16.9	17.6	7.1	4.0	1.0	54.9	52.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M05\_11 (M041264): Geometric Shapes and Measures / Applying      Type: MC      Key: A  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	50.4	50.4	20.2	18.9	5.2	3.6	1.7	46.6	54.5
	2015	595	49.5	49.5	14.0	22.6	7.2	4.4	2.2	51.2	47.6
Turkey	2011	1074	46.7	46.7	20.2	21.1	10.0	1.4	0.6	49.0	44.8
	2015	924	50.5	50.5	19.9	19.9	8.0	1.2	0.5	50.3	50.8
United Arab Emirates	2011	2100	46.1	46.1	23.8	16.8	9.4	2.5	1.4	43.9	48.2
	2015	3021	49.0	49.0	25.7	13.9	8.4	2.4	0.6	46.8	51.1
United States	2011	1782	60.1	60.1	16.8	14.9	5.8	1.5	1.0	62.2	58.1
	2015	1430	56.6	56.6	18.6	14.6	7.6	1.7	0.9	56.2	57.0
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International Avg (n=40)	2011	30282	51.3	51.3	17.8	19.3	7.5	3.1	1.0	51.1	51.5
	2015	30660	53.6	53.6	16.9	18.4	7.1	3.0	1.1	52.8	54.3
-----											
Ontario, Canada	2011	638	74.9	74.9	11.1	7.0	3.6	1.8	1.6	72.8	77.1
	2015	644	67.5	67.5	11.0	8.2	8.0	2.0	3.3	68.9	66.1
Quebec, Canada	2011	613	66.0	66.0	11.9	10.9	6.5	3.3	1.4	68.6	63.6
	2015	389	63.8	63.8	16.0	11.7	6.8	1.2	0.5	63.6	63.9
Norway (4)	2011	442	52.7	52.7	14.3	22.4	6.1	2.2	2.3	56.2	47.9
	2015	590	62.0	62.0	12.2	14.9	5.6	2.1	3.2	64.4	59.9
Abu Dhabi, UAE	2011	603	45.0	45.0	25.5	15.8	9.9	2.5	1.4	43.8	46.1
	2015	710	47.0	47.0	24.8	14.6	10.5	2.1	1.0	48.4	45.7
Dubai, UAE	2011	870	52.8	52.8	20.0	13.7	10.9	1.7	0.9	46.7	57.7
	2015	1073	60.2	60.2	20.4	11.2	6.2	1.8	0.2	56.6	63.8
Florida, US	2011	390	77.7	77.7	10.8	7.1	2.4	1.6	0.4	79.9	75.8
	2015	292	50.7	50.7	15.7	21.4	8.6	2.1	1.5	51.9	49.5
-----											

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M05\_12 (M041182): Data Display / Applying Type: CR 1 Point  
Label: Complete the table

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	87.6	6.1	3.1	2.2	1.0	87.6	89.4	85.8
	2015	868	92.0	4.4	2.2	1.1	0.2	92.0	92.9	91.2
Bahrain	2011	586	76.3	8.7	10.1	4.6	0.4	76.3	82.5	70.6
	2015	585	76.4	11.0	8.4	2.5	1.8	76.4	82.5	69.6
Belgium (Flemish)	2011	688	91.4	5.9	2.1	0.4	0.2	91.4	91.1	91.7
	2015	760	91.6	5.9	1.9	0.2	0.4	91.6	93.1	90.3
Chile	2011	789	78.4	6.3	6.3	5.2	3.8	78.4	76.6	80.2
	2015	677	80.6	6.9	3.5	5.3	3.6	80.6	85.1	76.0
Chinese Taipei	2011	614	92.9	5.3	1.1	0.2	0.5	92.9	94.2	91.9
	2015	611	93.6	4.9	0.4	1.0	0.1	93.6	95.6	91.7
Croatia	2011	659	79.3	5.2	11.4	3.8	0.4	79.3	83.6	74.9
	2015	570	87.3	3.9	7.4	1.5	0.0	87.3	87.9	86.7
Czech Republic	2011	648	91.2	4.3	3.3	0.9	0.2	91.2	91.5	90.9
	2015	740	90.7	5.1	2.7	0.9	0.5	90.7	90.7	90.8
Denmark	2011	580	85.2	5.9	2.9	3.0	3.0	85.2	87.8	82.4
	2015	530	82.7	5.6	3.5	2.8	5.3	82.7	82.1	83.3
England	2011	483	90.9	4.2	2.4	0.8	1.7	90.9	92.8	89.3
	2015	578	94.5	3.0	1.1	0.6	0.7	94.5	96.6	92.2
Finland	2011	665	89.6	5.7	3.3	1.1	0.4	89.6	91.5	88.0
	2015	716	86.6	7.5	3.1	0.9	1.9	86.6	87.9	85.4
Georgia	2011	690	69.0	12.9	10.5	4.7	3.0	69.0	78.0	61.6
	2015	553	69.4	15.9	10.0	3.2	1.5	69.4	76.9	61.7
Germany	2011	567	90.9	4.2	2.5	1.5	1.0	90.9	92.9	88.9
	2015	556	90.8	4.3	1.6	2.2	1.1	90.8	91.7	90.0
Hong Kong SAR	2011	561	93.1	4.8	1.5	0.5	0.2	93.1	93.5	92.7
	2015	507	92.3	5.8	1.8	0.1	0.0	92.3	92.0	92.5
Hungary	2011	742	82.6	5.8	7.5	2.1	2.0	82.6	85.6	79.9
	2015	716	89.4	3.2	5.9	0.5	1.0	89.4	91.0	87.8
Iran, Islamic Rep. of	2011	824	65.7	8.1	15.7	7.0	3.5	65.7	68.8	62.7
	2015	539	70.3	8.5	10.8	7.9	2.6	70.3	76.7	63.9
Ireland	2011	648	91.2	4.5	2.2	1.4	0.7	91.2	93.3	89.2
	2015	617	93.8	4.1	1.3	0.3	0.5	93.8	95.8	92.1
Italy	2011	598	87.4	6.7	1.3	2.7	1.8	87.4	87.9	86.9
	2015	620	91.9	5.1	1.0	1.1	1.0	91.9	91.3	92.5
Japan	2011	634	95.4	2.9	1.6	0.0	0.1	95.4	97.5	93.2
	2015	629	96.7	3.0	0.2	0.0	0.1	96.7	95.3	98.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_12 (M041182): Data Display / Applying Type: CR 1 Point  
Label: Complete the table

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	81.0	6.1	10.2	1.9	0.9	81.0	84.2	77.7
	2015	673	82.8	8.0	7.1	1.9	0.2	82.8	84.9	80.8
Korea, Rep. of	2011	620	96.1	3.6	0.2	0.0	0.2	96.1	97.0	95.4
	2015	674	95.7	3.8	0.4	0.2	0.0	95.7	97.0	94.4
Kuwait	2011	585	42.9	10.2	31.4	11.2	4.3	42.9	52.4	31.6
	2015	507	44.8	11.0	29.4	8.7	6.1	44.8	56.1	34.1
Lithuania	2011	692	91.2	5.0	2.6	0.7	0.5	91.2	91.2	91.1
	2015	638	90.3	6.1	0.7	2.5	0.4	90.3	91.4	89.2
Morocco	2011	1128	35.1	9.0	36.2	17.3	2.4	35.1	36.8	33.6
	2015	730	45.3	10.1	34.5	6.4	3.7	45.3	51.4	40.3
Netherlands	2011	467	93.5	4.3	1.6	0.2	0.4	93.5	95.3	91.9
	2015	646	91.5	3.9	1.7	1.7	1.2	91.5	91.4	91.6
New Zealand	2011	805	86.9	5.4	5.3	1.6	0.8	86.9	88.8	85.3
	2015	894	86.2	5.5	5.2	1.2	1.8	86.2	89.7	82.7
Northern Ireland	2011	499	92.0	4.5	2.9	0.2	0.3	92.0	93.4	90.8
	2015	448	95.9	2.0	1.1	0.8	0.2	95.9	94.8	96.9
Oman	2011	1483	63.5	10.7	17.0	5.7	3.2	63.5	72.1	55.5
	2015	1314	68.8	10.0	17.0	2.8	1.5	68.8	75.1	62.3
Portugal	2011	581	94.3	3.1	1.3	0.7	0.5	94.3	95.9	92.6
	2015	668	91.1	5.9	0.7	1.2	1.1	91.1	91.7	90.5
Qatar	2011	596	66.1	13.2	16.0	3.4	1.4	66.1	69.3	63.4
	2015	751	74.3	9.6	10.6	2.5	2.9	74.3	79.7	68.7
Russian Federation	2011	644	84.3	4.5	8.1	2.5	0.7	84.3	87.5	81.1
	2015	712	94.1	2.1	3.1	0.5	0.1	94.1	94.4	93.8
Saudi Arabia	2011	655	69.8	13.0	12.3	2.7	2.2	69.8	80.1	59.3
	2015	607	59.7	14.5	15.9	5.9	4.0	59.7	76.9	44.5
Serbia	2011	620	84.9	3.3	8.3	2.8	0.8	84.9	89.1	81.5
	2015	571	88.1	2.7	4.4	3.0	1.8	88.1	93.8	83.5
Singapore	2011	907	95.6	2.3	1.4	0.7	0.0	95.6	96.1	95.2
	2015	931	94.9	2.8	1.7	0.3	0.2	94.9	95.7	94.2
Slovak Republic	2011	803	90.0	4.0	3.4	1.7	1.0	90.0	90.7	89.3
	2015	836	89.4	4.0	4.2	1.9	0.5	89.4	90.1	88.7
Slovenia	2011	638	88.2	6.7	2.3	1.3	1.4	88.2	91.1	85.8
	2015	639	92.0	5.0	1.7	0.5	0.8	92.0	92.5	91.5
Spain	2011	609	86.1	4.4	5.0	2.6	2.0	86.1	87.8	84.4
	2015	1099	89.4	4.4	3.3	1.5	1.3	89.4	91.3	87.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_12 (M041182): Data Display / Applying Type: CR 1 Point  
Label: Complete the table

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	87.9	6.7	1.9	1.8	1.7	87.9	90.8	84.7
	2015	595	88.1	5.9	2.4	1.3	2.3	88.1	87.6	88.5
Turkey	2011	1075	82.9	6.5	7.3	2.6	0.8	82.9	86.8	79.5
	2015	924	83.0	5.9	8.5	2.0	0.6	83.0	86.1	80.1
United Arab Emirates	2011	2100	74.6	8.7	11.9	3.2	1.6	74.6	80.0	69.2
	2015	3021	76.7	8.1	11.5	2.6	1.1	76.7	79.8	73.6
United States	2011	1782	91.3	4.4	1.8	1.5	1.0	91.3	92.4	90.3
	2015	1430	90.3	4.7	2.5	1.3	1.2	90.3	93.3	87.0
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International Avg (n=40)	2011	30453	82.9	6.2	6.9	2.7	1.3	82.9	85.7	80.3
	2015	30680	84.6	6.1	5.9	2.1	1.4	84.6	87.2	82.0
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Ontario, Canada	2011	638	91.6	3.7	1.0	2.1	1.6	91.6	91.8	91.5
	2015	346	95.1	2.9	0.7	0.6	0.7	95.1	94.6	95.5
Quebec, Canada	2011	613	88.6	5.5	2.1	1.8	2.0	88.6	92.4	85.1
	2015	321	92.4	4.5	2.4	0.5	0.1	92.4	93.7	91.2
Norway (4)	2011	442	85.3	7.0	3.3	2.2	2.3	85.3	86.6	83.5
	2015	589	76.5	11.6	5.8	2.6	3.6	76.5	79.3	73.9
Abu Dhabi, UAE	2011	603	69.6	9.8	15.4	3.4	1.8	69.6	78.4	60.9
	2015	710	71.7	7.7	15.6	3.1	1.8	71.7	75.5	68.3
Dubai, UAE	2011	870	82.3	5.6	8.9	2.2	1.1	82.3	83.4	81.4
	2015	1073	88.3	5.1	5.0	1.3	0.3	88.3	91.1	85.5
Florida, US	2011	390	91.9	3.2	2.0	2.4	0.4	91.9	93.3	90.8
	2015	292	87.1	7.5	2.8	0.7	1.8	87.1	89.3	84.6
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_13 (M041200): Data Display / Applying Type: CR 2 Points  
Label: Complete and label the bar graph

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	876	50.5	7.1	23.5	14.8	2.4	1.7	81.0	50.5	52.5	48.5
	2015	868	63.2	11.4	15.3	7.7	1.9	0.5	89.9	63.2	66.5	60.3
Bahrain	2011	586	50.1	7.4	14.2	19.8	7.4	1.1	71.7	50.1	56.7	43.9
	2015	585	48.1	8.6	13.9	21.2	5.0	3.2	70.7	48.1	55.5	39.8
Belgium (Flemish)	2011	688	55.5	14.9	6.6	19.4	3.3	0.3	77.0	55.5	59.7	51.7
	2015	0	.	.	.	.	.	.	.	.	.	.
Chile	2011	789	47.3	4.7	22.1	13.6	6.3	6.0	74.1	47.3	47.6	47.0
	2015	677	54.1	8.2	16.4	9.2	6.4	5.7	78.7	54.1	56.4	51.7
Chinese Taipei	2011	614	79.0	12.6	0.6	4.3	3.1	0.5	92.1	79.0	76.7	81.0
	2015	611	66.7	10.7	8.8	10.0	3.2	0.6	86.2	66.7	71.2	62.5
Croatia	2011	659	31.0	13.5	6.8	28.4	19.2	1.1	51.3	31.0	32.0	30.0
	2015	570	38.0	18.7	7.4	26.0	9.7	0.2	64.2	38.0	37.5	38.6
Czech Republic	2011	648	46.7	8.8	14.7	17.9	11.5	0.4	70.2	46.7	44.9	48.5
	2015	740	46.9	11.1	11.0	22.0	8.3	0.7	69.1	46.9	47.8	46.0
Denmark	2011	580	68.2	11.2	5.7	7.9	2.8	4.2	85.1	68.2	73.3	62.8
	2015	530	56.0	15.4	7.0	12.6	2.9	6.2	78.4	56.0	57.4	54.5
England	2011	483	55.5	6.5	22.3	11.8	1.6	2.4	84.3	55.5	59.5	52.0
	2015	578	57.9	5.7	22.1	12.6	0.7	1.1	85.7	57.9	61.4	54.1
Finland	2011	665	50.3	4.1	19.1	20.7	5.1	0.7	73.5	50.3	49.4	51.2
	2015	716	42.4	5.9	22.6	21.6	5.5	2.0	70.9	42.4	53.6	32.1
Georgia	2011	688	32.2	8.4	8.6	28.2	17.7	4.8	49.3	32.2	37.6	27.9
	2015	553	29.1	12.6	8.6	29.8	16.8	3.2	50.2	29.1	31.3	26.8
Germany	2011	567	48.7	7.5	25.2	13.6	3.9	1.2	81.4	48.7	52.9	44.6
	2015	556	53.0	12.6	13.1	15.0	4.5	1.8	78.8	53.0	55.2	51.0
Hong Kong SAR	2011	561	70.2	5.4	17.5	6.5	0.2	0.2	93.1	70.2	71.0	69.6
	2015	507	70.7	7.6	16.2	5.2	0.2	0.0	94.6	70.7	73.4	68.3
Hungary	2011	740	55.8	9.4	13.1	14.8	4.3	2.7	78.2	55.8	55.4	56.1
	2015	716	49.6	5.1	17.9	21.8	4.6	1.0	72.6	49.6	52.5	46.9
Iran, Islamic Rep. of	2011	824	21.4	8.5	5.0	39.9	17.7	7.4	35.0	21.4	21.9	21.0
	2015	538	35.8	10.3	7.3	27.3	14.6	4.7	53.4	35.8	41.5	30.1
Ireland	2011	648	61.4	7.4	14.3	14.8	1.1	0.9	83.2	61.4	64.2	58.9
	2015	617	52.4	11.1	23.2	12.0	0.7	0.6	86.7	52.4	56.5	48.9
Italy	2011	598	46.7	14.3	13.3	18.5	4.1	3.2	74.3	46.7	47.1	46.2
	2015	620	43.9	16.5	11.4	20.0	6.4	1.8	71.8	43.9	43.5	44.2
Japan	2011	634	79.4	7.9	8.3	3.8	0.4	0.1	95.6	79.4	83.8	74.9
	2015	629	72.6	10.5	8.9	5.8	2.0	0.1	92.1	72.6	80.6	64.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_13 (M041200): Data Display / Applying Type: CR 2 Points  
Label: Complete and label the bar graph

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	54.3	12.6	5.7	16.2	10.0	1.2	72.6	54.3	59.0	49.6
	2015	673	38.3	15.8	1.8	37.9	5.8	0.3	55.9	38.3	37.8	38.8
Korea, Rep. of	2011	620	78.7	1.0	16.0	3.8	0.3	0.2	95.7	78.7	78.0	79.3
	2015	674	79.8	4.8	11.3	3.9	0.3	0.0	95.8	79.8	81.1	78.5
Kuwait	2011	585	19.0	3.0	6.2	47.3	16.9	7.5	28.2	19.0	21.6	15.9
	2015	507	14.9	6.9	5.2	43.9	19.8	9.2	27.0	14.9	16.0	13.8
Lithuania	2011	692	57.7	8.1	15.8	16.4	1.4	0.5	81.7	57.7	61.1	54.8
	2015	638	53.9	12.2	16.2	14.4	2.4	0.9	82.3	53.9	57.6	50.4
Morocco	2011	1128	7.0	7.7	1.6	42.8	30.4	10.5	16.3	7.0	4.8	9.1
	2015	729	18.8	22.8	0.6	36.6	16.0	5.2	42.2	18.8	17.8	19.7
Netherlands	2011	467	53.2	7.6	21.0	16.0	1.8	0.4	81.8	53.2	55.1	51.3
	2015	646	60.3	7.1	12.4	15.7	2.5	2.0	79.7	60.3	68.0	53.4
New Zealand	2011	805	45.9	6.1	29.7	16.2	1.2	0.9	81.7	45.9	48.6	43.5
	2015	894	42.3	6.1	26.3	20.7	2.5	2.2	74.6	42.3	48.7	35.7
Northern Ireland	2011	499	54.6	6.8	26.5	10.6	1.1	0.3	88.0	54.6	54.4	54.8
	2015	448	60.8	10.2	19.6	7.8	1.4	0.2	90.6	60.8	68.8	53.3
Oman	2011	1483	35.6	13.7	4.7	32.3	8.5	5.1	54.1	35.6	38.8	32.7
	2015	1314	43.8	17.7	6.2	23.6	6.4	2.3	67.7	43.8	48.6	38.9
Portugal	2011	581	57.5	16.9	12.5	9.9	2.4	0.7	86.9	57.5	57.5	57.5
	2015	668	57.8	9.3	21.6	8.1	1.9	1.2	88.8	57.8	56.8	58.8
Qatar	2011	596	39.6	14.0	7.8	31.3	4.8	2.6	61.4	39.6	43.3	36.5
	2015	751	46.4	10.4	11.5	23.3	4.2	4.2	68.4	46.4	49.9	42.9
Russian Federation	2011	644	57.6	10.2	11.3	15.4	4.7	0.9	79.1	57.6	64.3	51.1
	2015	713	65.8	6.4	15.1	9.3	2.9	0.4	87.3	65.8	70.3	61.3
Saudi Arabia	2011	656	24.2	10.6	9.1	45.1	8.2	2.7	44.0	24.2	28.8	19.5
	2015	607	29.1	13.2	5.5	32.7	13.2	6.2	47.9	29.1	39.9	19.6
Serbia	2011	620	56.8	13.7	4.5	15.4	7.3	2.3	75.1	56.8	62.1	52.5
	2015	571	46.7	17.1	7.2	15.2	10.5	3.3	71.0	46.7	51.9	42.5
Singapore	2011	907	65.1	6.5	18.5	9.1	0.6	0.2	90.1	65.1	66.9	63.5
	2015	931	67.0	7.7	16.0	8.7	0.3	0.3	90.7	67.0	70.5	63.9
Slovak Republic	2011	803	45.6	10.3	10.2	25.1	6.9	1.8	66.2	45.6	45.0	46.3
	2015	836	42.6	8.5	13.5	26.1	8.3	1.0	64.6	42.6	38.9	46.2
Slovenia	2011	638	52.0	11.1	15.3	16.1	3.6	1.9	78.4	52.0	58.9	46.1
	2015	639	62.3	11.4	12.6	9.5	3.0	1.3	86.3	62.3	63.6	61.0
Spain	2011	609	49.7	11.7	10.0	18.3	8.1	2.2	71.3	49.7	51.9	47.6
	2015	1099	56.0	12.9	12.6	13.0	3.7	1.8	81.5	56.0	59.3	52.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M05\_13 (M041200): Data Display / Applying Type: CR 2 Points  
Label: Complete and label the bar graph

COUNTRY	Year	N	20 %	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	685	63.2	8.3	16.5	7.5	2.0	2.5	88.0	63.2	68.3	57.5
	2015	595	56.1	10.7	14.9	12.0	3.3	2.9	81.8	56.1	61.1	51.6
Turkey	2011	1075	60.2	7.9	7.4	18.3	4.7	1.6	75.4	60.2	64.3	56.6
	2015	924	57.4	8.4	11.8	17.2	3.9	1.2	77.7	57.4	61.1	53.8
United Arab Emirates	2011	2099	42.4	7.7	13.9	24.5	8.6	2.9	64.0	42.4	46.6	38.3
	2015	3021	46.3	10.3	12.8	24.1	4.4	2.1	69.4	46.3	50.7	42.0
United States	2011	1782	45.4	4.9	31.1	16.3	1.0	1.3	81.5	45.4	46.3	44.7
	2015	1430	43.7	6.4	29.7	17.5	1.3	1.4	79.8	43.7	45.9	41.4
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International Avg (n=40)	2011	30449	50.4	9.0	13.4	18.8	6.2	2.2	72.8	50.4	52.8	48.1
	2015	29919	50.5	10.7	13.2	18.0	5.4	2.1	74.5	50.5	54.0	47.2
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Ontario, Canada	2011	638	66.3	6.8	18.7	5.2	0.9	2.0	91.8	66.3	69.1	63.4
	2015	346	55.8	13.6	21.5	8.0	0.4	0.7	90.9	55.8	59.4	52.3
Quebec, Canada	2011	613	61.4	6.0	17.4	12.1	1.1	2.0	84.8	61.4	60.3	62.3
	2015	321	68.9	3.6	16.2	11.2	0.0	0.1	88.7	68.9	68.8	68.9
Norway (4)	2011	442	40.7	5.4	26.0	22.0	3.3	2.7	72.1	40.7	43.0	37.5
	2015	590	49.9	6.5	17.9	15.6	5.3	4.7	74.3	49.9	54.0	46.2
Abu Dhabi, UAE	2011	602	36.3	9.5	14.0	28.9	8.7	2.5	59.9	36.3	43.5	29.3
	2015	710	42.6	12.1	10.4	27.2	4.4	3.3	65.1	42.6	47.0	38.6
Dubai, UAE	2011	870	45.8	6.2	18.9	21.1	5.9	2.1	71.0	45.8	46.5	45.3
	2015	1073	57.7	9.2	17.0	14.0	1.5	0.7	83.8	57.7	60.8	54.5
Florida, US	2011	390	42.2	9.0	28.0	19.1	1.0	0.7	79.2	42.2	47.3	37.6
	2015	292	48.6	5.0	25.2	17.4	2.0	1.8	78.8	48.6	52.8	44.1
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M06\_01 (M051140): Number / Applying      Type: MC      Key: A  
Label: Expression for Jenny's age

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	51.5	51.5	29.2	11.2	4.3	3.7	0.1	53.6	49.6
	2015	868	51.3	51.3	26.7	11.6	6.1	4.3	0.0	58.1	44.8
Bahrain	2011	575	39.8	39.8	28.1	9.8	12.0	10.3	0.0	42.6	37.1
	2015	587	60.3	60.3	20.9	7.2	8.6	2.8	0.3	62.2	58.3
Belgium (Flemish)	2011	682	62.4	62.4	17.0	14.7	2.5	3.3	0.0	65.5	59.4
	2015	759	62.1	62.1	17.7	13.2	2.3	4.8	0.0	66.0	58.1
Chile	2011	791	43.5	43.5	26.1	15.5	9.5	5.2	0.4	41.5	45.6
	2015	682	48.1	48.1	24.1	14.8	6.9	5.2	0.9	51.8	44.2
Chinese Taipei	2011	603	70.1	70.1	22.0	4.9	1.9	1.0	0.0	72.8	67.9
	2015	616	73.3	73.3	17.3	5.3	2.5	1.7	0.0	75.9	70.8
Croatia	2011	649	55.1	55.1	21.8	7.5	2.8	12.8	0.0	55.6	54.5
	2015	560	54.4	54.4	24.6	7.5	3.4	10.1	0.0	57.2	51.4
Czech Republic	2011	647	47.7	47.7	21.1	9.1	4.5	17.6	0.0	50.8	45.0
	2015	742	57.1	57.1	18.9	7.6	3.0	13.3	0.0	60.0	53.9
Denmark	2011	575	43.7	43.7	28.8	12.9	4.7	9.0	0.9	44.1	43.2
	2015	525	48.6	48.6	27.4	9.6	5.3	8.4	0.7	48.7	48.4
England	2011	495	51.5	51.5	26.6	10.8	4.6	5.8	0.7	49.6	53.4
	2015	577	53.2	53.2	27.4	13.2	3.0	3.2	0.0	53.2	53.3
Finland	2011	661	61.8	61.8	17.9	11.8	1.9	6.6	0.0	66.8	57.6
	2015	722	57.9	57.9	21.9	12.3	2.0	5.6	0.3	67.2	49.5
Georgia	2011	677	53.7	53.7	23.2	8.5	4.0	10.1	0.5	53.8	53.6
	2015	555	55.7	55.7	26.7	6.5	3.9	6.2	1.0	50.3	60.9
Germany	2011	566	58.6	58.6	18.1	10.8	3.3	9.3	0.0	61.9	55.4
	2015	562	53.2	53.2	17.1	11.9	3.3	14.4	0.2	60.3	46.9
Hong Kong SAR	2011	556	79.1	79.1	14.0	4.2	1.5	1.2	0.0	80.9	77.6
	2015	516	82.9	82.9	11.7	3.5	1.3	0.6	0.0	83.7	82.3
Hungary	2011	746	48.7	48.7	27.7	10.3	7.0	6.0	0.3	49.7	47.8
	2015	717	53.6	53.6	26.6	11.2	4.0	4.6	0.1	56.1	51.2
Iran, Islamic Rep. of	2011	824	36.1	36.1	27.0	13.5	11.4	11.6	0.4	39.0	33.2
	2015	541	38.7	38.7	22.4	16.4	11.4	10.3	0.8	39.1	38.2
Ireland	2011	652	63.7	63.7	16.6	10.4	2.3	7.0	0.1	65.7	61.8
	2015	621	65.5	65.5	16.2	11.3	3.8	3.2	0.0	72.5	59.6
Italy	2011	596	68.5	68.5	16.3	6.4	3.4	5.3	0.0	65.1	72.5
	2015	608	65.8	65.8	18.3	8.2	2.1	5.5	0.1	65.3	66.2
Japan	2011	627	48.4	48.4	32.6	14.4	3.7	0.9	0.0	50.6	46.2
	2015	622	52.3	52.3	26.3	16.6	4.2	0.5	0.1	52.4	52.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_01 (M051140): Number / Applying      Type: MC      Key: A  
Label: Expression for Jenny's age

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	62.6	62.6	24.6	7.1	3.0	2.7	0.1	62.3	62.9
	2015	664	68.8	68.8	19.6	7.5	2.4	1.8	0.0	67.9	69.6
Korea, Rep. of	2011	619	61.3	61.3	29.8	6.4	1.7	0.9	0.0	61.4	61.2
	2015	674	60.0	60.0	29.4	8.1	2.0	0.4	0.0	59.6	60.4
Kuwait	2011	576	29.9	29.9	26.9	12.9	17.3	12.5	0.5	28.7	31.2
	2015	506	30.6	30.6	25.4	12.0	9.3	21.8	0.9	34.4	26.6
Lithuania	2011	669	67.0	67.0	17.6	7.7	4.3	3.5	0.0	68.2	65.9
	2015	638	67.5	67.5	16.6	7.7	3.6	4.7	0.0	70.1	64.9
Morocco	2011	981	27.6	27.6	32.8	19.2	13.0	7.4	0.0	30.9	24.3
	2015	709	17.1	17.1	36.6	25.8	15.9	4.2	0.3	16.9	17.3
Netherlands	2011	460	55.0	55.0	21.2	15.8	5.5	2.6	0.0	60.7	48.6
	2015	641	51.7	51.7	25.3	16.2	4.2	2.5	0.1	51.1	52.3
New Zealand	2011	815	48.3	48.3	29.1	11.8	6.1	4.4	0.3	52.9	43.7
	2015	896	51.0	51.0	29.2	9.2	6.1	4.5	0.0	52.4	49.8
Northern Ireland	2011	502	64.1	64.1	19.5	10.3	2.7	3.3	0.0	66.4	62.1
	2015	426	70.5	70.5	19.2	8.3	1.6	0.5	0.0	72.2	68.7
Oman	2011	1490	35.8	35.8	21.2	13.2	18.3	11.4	0.1	38.2	33.7
	2015	1302	34.3	34.3	31.5	11.6	17.1	5.4	0.1	33.7	34.9
Portugal	2011	580	57.4	57.4	19.7	10.7	6.7	5.4	0.0	55.1	59.8
	2015	669	55.2	55.2	22.8	11.8	6.1	4.1	0.0	54.8	55.8
Qatar	2011	595	39.8	39.8	24.3	11.0	13.3	11.4	0.3	38.7	40.7
	2015	739	41.6	41.6	23.7	11.3	11.6	11.2	0.6	46.1	36.7
Russian Federation	2011	644	76.2	76.2	17.7	3.6	1.1	1.1	0.3	76.5	75.9
	2015	710	83.1	83.1	11.4	2.7	1.6	0.9	0.1	83.1	83.1
Saudi Arabia	2011	651	39.7	39.7	24.0	15.8	14.5	6.1	0.0	37.4	42.0
	2015	598	33.6	33.6	24.9	14.5	14.5	11.8	0.6	37.3	30.2
Serbia	2011	624	63.2	63.2	16.9	8.9	2.9	8.1	0.1	67.7	59.6
	2015	566	61.6	61.6	18.6	9.1	3.8	6.9	0.0	57.1	65.6
Singapore	2011	915	73.0	73.0	17.2	6.0	3.3	0.5	0.0	72.2	73.7
	2015	930	78.3	78.3	14.1	3.8	3.7	0.1	0.0	80.0	76.7
Slovak Republic	2011	809	59.0	59.0	22.2	7.8	3.9	7.1	0.0	60.8	57.2
	2015	837	58.8	58.8	20.5	9.4	4.2	6.9	0.1	62.4	55.4
Slovenia	2011	644	59.5	59.5	25.2	7.2	2.4	5.5	0.3	58.1	60.8
	2015	636	61.5	61.5	23.0	5.3	3.8	6.1	0.3	61.5	61.5
Spain	2011	613	47.2	47.2	25.2	10.1	6.8	10.0	0.7	46.4	47.9
	2015	1103	50.4	50.4	27.1	7.8	7.1	7.2	0.4	48.4	52.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_01 (M051140): Number / Applying      Type: MC      Key: A  
Label: Expression for Jenny's age

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	52.9	52.9	20.8	9.8	1.1	14.7	0.7	53.2	52.5
	2015	588	57.1	57.1	26.4	9.2	2.3	4.8	0.2	55.3	59.5
Turkey	2011	1066	42.0	42.0	33.5	10.1	11.5	2.8	0.1	40.8	43.2
	2015	919	42.1	42.1	35.7	11.1	9.2	1.9	0.0	40.9	43.4
United Arab Emirates	2011	2087	43.6	43.6	25.6	12.6	9.0	9.0	0.1	45.7	41.7
	2015	3031	44.2	44.2	28.6	10.5	11.3	5.3	0.1	43.1	45.3
United States	2011	1759	67.0	67.0	17.7	10.1	4.0	1.1	0.2	66.5	67.7
	2015	1421	65.6	65.6	16.8	7.9	7.8	1.6	0.3	66.0	65.1
-----											
International Avg (n=40)	2011	30211	53.9	53.9	23.2	10.4	5.9	6.4	0.2	55.0	52.9
	2015	30583	55.5	55.5	23.0	10.2	5.7	5.5	0.2	56.9	54.1
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Ontario, Canada	2011	645	57.2	57.2	20.9	12.9	6.4	2.6	0.0	56.3	58.1
	2015	657	61.1	61.1	19.2	11.9	5.0	2.5	0.3	65.2	57.6
Quebec, Canada	2011	616	52.4	52.4	31.9	8.3	3.4	4.0	0.0	54.4	50.3
	2015	399	48.2	48.2	35.4	8.0	4.9	3.4	0.0	42.1	53.9
Norway (4)	2011	434	46.7	46.7	27.4	8.5	5.2	12.3	0.0	44.6	49.0
	2015	600	46.6	46.6	28.5	12.4	5.2	6.6	0.5	51.7	41.5
Abu Dhabi, UAE	2011	591	41.3	41.3	27.1	14.7	8.6	8.3	0.0	45.1	37.7
	2015	716	41.9	41.9	33.3	9.5	11.0	4.0	0.2	38.5	44.7
Dubai, UAE	2011	867	47.8	47.8	25.2	9.5	9.6	7.7	0.3	45.7	49.5
	2015	1068	53.9	53.9	22.8	10.9	8.8	3.4	0.1	55.0	52.8
Florida, US	2011	375	63.4	63.4	19.3	9.1	7.3	0.7	0.3	62.1	64.6
	2015	289	63.8	63.8	17.4	7.3	10.0	1.5	0.0	63.7	64.0
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M06\_02 (M051017): Number / Knowing Type: MC Key: C  
Label: Closest estimate for 52093 - 4136

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	55.8	16.1	20.1	55.8	6.2	1.8	0.1	49.3	61.4
	2015	868	48.8	13.8	28.4	48.8	6.6	2.5	0.0	39.8	57.3
Bahrain	2011	575	42.5	19.4	19.5	42.5	14.8	3.3	0.5	38.6	46.2
	2015	587	53.3	12.5	22.7	53.3	10.0	1.0	0.5	51.4	55.2
Belgium (Flemish)	2011	682	57.6	16.1	21.6	57.6	2.4	2.3	0.0	49.5	65.6
	2015	759	63.4	8.2	21.6	63.4	3.6	3.1	0.2	57.3	69.6
Chile	2011	791	39.7	16.2	27.2	39.7	13.3	3.2	0.4	38.3	41.2
	2015	682	44.2	13.6	23.7	44.2	14.1	3.4	1.0	46.5	41.7
Chinese Taipei	2011	603	71.1	9.8	14.6	71.1	3.8	0.7	0.0	69.2	72.7
	2015	616	73.4	10.6	13.5	73.4	2.3	0.3	0.0	68.7	77.9
Croatia	2011	649	53.3	10.6	29.9	53.3	3.5	2.7	0.0	46.9	59.4
	2015	560	52.4	11.6	30.6	52.4	3.7	1.7	0.1	47.9	56.9
Czech Republic	2011	647	47.6	12.0	29.3	47.6	7.5	3.6	0.0	40.2	53.9
	2015	742	47.0	8.9	36.4	47.0	4.8	3.0	0.0	40.6	54.3
Denmark	2011	575	62.5	11.7	15.9	62.5	3.2	5.6	1.1	55.5	70.4
	2015	525	56.5	20.4	15.2	56.5	2.7	3.5	1.7	53.3	59.2
England	2011	495	61.7	9.8	21.2	61.7	5.6	1.0	0.7	57.6	65.7
	2015	577	66.0	9.0	20.5	66.0	3.5	1.0	0.0	56.3	75.5
Finland	2011	661	51.5	16.9	24.7	51.5	5.5	1.5	0.0	40.1	61.0
	2015	722	57.1	13.5	25.0	57.1	3.2	0.9	0.3	47.5	65.8
Georgia	2011	677	52.6	8.1	19.1	52.6	15.2	4.0	0.9	45.9	58.4
	2015	555	59.0	9.4	13.0	59.0	15.0	2.4	1.2	56.8	61.2
Germany	2011	566	59.5	9.6	23.5	59.5	4.4	3.1	0.0	52.0	66.6
	2015	562	61.3	8.4	20.2	61.3	6.7	3.2	0.2	54.8	67.0
Hong Kong SAR	2011	556	58.5	15.5	21.4	58.5	3.9	0.7	0.0	52.8	63.1
	2015	516	67.0	12.2	17.9	67.0	2.1	0.8	0.0	65.4	68.4
Hungary	2011	746	55.7	11.7	18.9	55.7	9.3	3.6	0.7	51.6	59.8
	2015	717	65.1	11.0	14.6	65.1	6.5	2.6	0.2	58.5	71.5
Iran, Islamic Rep. of	2011	824	31.1	17.7	23.3	31.1	18.7	8.0	1.1	28.8	33.5
	2015	541	38.0	15.3	17.1	38.0	17.8	9.9	2.0	37.7	38.4
Ireland	2011	652	48.2	21.3	24.9	48.2	4.6	1.0	0.1	38.1	58.0
	2015	621	50.3	24.0	20.4	50.3	4.6	0.7	0.0	46.9	53.2
Italy	2011	596	46.8	11.0	31.3	46.8	6.9	3.8	0.2	41.3	53.1
	2015	608	45.1	12.5	31.6	45.1	5.3	5.0	0.4	40.1	49.7
Japan	2011	627	71.3	15.0	10.7	71.3	2.9	0.1	0.0	73.6	68.9
	2015	622	69.9	15.7	11.0	69.9	2.8	0.4	0.1	69.3	70.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_02 (M051017): Number / Knowing Type: MC Key: C  
Label: Closest estimate for 52093 - 4136

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	45.9	11.0	34.8	45.9	4.9	2.8	0.6	42.1	49.3
	2015	664	53.3	7.7	36.6	53.3	1.8	0.5	0.0	54.8	52.0
Korea, Rep. of	2011	619	79.0	11.3	7.8	79.0	1.5	0.5	0.0	80.6	77.5
	2015	674	79.8	8.3	8.8	79.8	3.0	0.2	0.0	74.5	84.9
Kuwait	2011	581	28.2	23.3	19.8	28.2	21.6	6.4	0.8	28.5	27.9
	2015	506	30.3	22.8	21.4	30.3	15.5	8.9	1.1	28.6	32.0
Lithuania	2011	669	55.9	12.8	22.1	55.9	6.3	2.9	0.0	49.2	61.8
	2015	638	52.8	13.5	24.5	52.8	6.8	2.3	0.0	55.0	50.7
Morocco	2011	951	34.4	12.6	28.5	34.4	20.5	4.0	0.0	31.8	37.0
	2015	706	35.7	10.5	30.2	35.7	17.8	5.1	0.7	38.5	33.2
Netherlands	2011	460	63.6	8.1	21.4	63.6	4.7	2.3	0.0	56.6	71.2
	2015	641	51.2	23.8	20.1	51.2	3.1	1.5	0.2	48.2	54.2
New Zealand	2011	815	50.7	15.0	25.5	50.7	6.9	1.6	0.3	43.1	58.1
	2015	896	51.5	15.8	23.5	51.5	6.3	2.7	0.1	47.8	54.9
Northern Ireland	2011	502	65.8	6.9	22.4	65.8	3.4	1.5	0.0	58.8	72.2
	2015	438	69.4	6.2	19.8	69.4	4.2	0.4	0.0	62.5	76.3
Oman	2011	1490	32.6	22.4	24.9	32.6	15.6	4.2	0.3	33.9	31.4
	2015	1304	35.2	24.7	25.0	35.2	13.0	1.9	0.3	35.4	34.9
Portugal	2011	580	41.1	18.8	27.8	41.1	11.0	1.2	0.0	41.3	40.9
	2015	669	34.7	23.9	33.0	34.7	6.7	1.7	0.0	32.6	37.2
Qatar	2011	595	40.3	18.6	26.0	40.3	11.3	3.3	0.4	39.3	41.2
	2015	739	40.0	26.3	23.1	40.0	7.7	2.1	0.8	35.6	44.8
Russian Federation	2011	644	53.2	11.9	30.8	53.2	2.1	1.7	0.3	53.3	53.2
	2015	710	52.3	8.6	36.5	52.3	1.7	0.8	0.1	55.5	49.4
Saudi Arabia	2011	654	41.0	21.5	21.5	41.0	14.8	1.0	0.2	44.1	37.8
	2015	595	35.5	22.8	19.2	35.5	17.1	4.3	1.1	37.8	33.4
Serbia	2011	624	61.8	8.5	25.0	61.8	3.6	1.0	0.1	59.9	63.4
	2015	566	66.9	6.0	22.1	66.9	2.6	2.4	0.0	63.7	69.7
Singapore	2011	915	71.0	10.2	14.4	71.0	3.8	0.6	0.0	72.9	69.3
	2015	930	73.0	8.7	14.1	73.0	3.8	0.3	0.0	73.8	72.3
Slovak Republic	2011	809	45.5	11.4	37.3	45.5	3.7	2.1	0.0	42.0	49.0
	2015	837	40.1	10.8	39.1	40.1	6.1	3.8	0.1	36.7	43.4
Slovenia	2011	638	42.4	24.6	19.9	42.4	7.3	5.5	0.3	40.7	43.9
	2015	636	45.8	21.0	23.4	45.8	5.3	4.2	0.4	45.5	46.0
Spain	2011	613	56.0	8.9	23.0	56.0	6.2	5.1	0.7	56.6	55.5
	2015	1103	64.0	7.1	20.3	64.0	4.8	3.5	0.4	59.4	68.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_02 (M051017): Number / Knowing Type: MC Key: C  
Label: Closest estimate for 52093 - 4136

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	55.6	11.7	24.5	55.6	2.8	4.5	0.9	51.7	59.7
	2015	588	59.4	11.5	19.9	59.4	5.9	3.1	0.2	52.4	66.6
Turkey	2011	1066	48.4	16.7	20.3	48.4	13.1	1.4	0.1	45.0	51.6
	2015	919	51.5	17.8	16.8	51.5	12.1	1.7	0.2	48.2	54.8
United Arab Emirates	2011	2087	41.6	16.7	25.2	41.6	13.0	3.2	0.3	38.5	44.6
	2015	3031	44.8	15.8	25.2	44.8	10.5	3.5	0.3	40.8	48.5
United States	2011	1759	61.3	11.5	20.4	61.3	5.0	1.6	0.2	59.7	63.1
	2015	1421	62.1	9.7	20.4	62.1	4.7	2.8	0.4	58.6	65.9
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International Avg (n=40)	2011	30183	52.1	14.1	23.0	52.1	7.9	2.7	0.3	48.5	55.5
	2015	30591	53.7	13.9	22.7	53.7	6.9	2.6	0.4	50.6	56.7
-----											
Ontario, Canada	2011	645	40.1	28.5	23.5	40.1	6.1	1.6	0.2	35.2	44.6
	2015	656	49.3	21.4	21.4	49.3	6.1	1.5	0.3	46.6	51.6
Quebec, Canada	2011	616	56.7	13.9	22.4	56.7	4.2	2.8	0.0	50.8	62.9
	2015	396	55.2	10.4	29.1	55.2	4.0	1.3	0.0	51.7	58.4
Norway (4)	2011	434	32.9	28.6	20.3	32.9	13.3	4.8	0.1	29.6	36.7
	2015	600	47.9	12.7	24.8	47.9	10.5	3.6	0.5	46.0	49.7
Abu Dhabi, UAE	2011	591	37.6	16.0	29.8	37.6	14.6	1.8	0.1	35.2	39.9
	2015	716	41.5	14.6	27.1	41.5	14.2	2.2	0.4	37.5	44.7
Dubai, UAE	2011	867	49.0	15.7	22.5	49.0	8.5	4.1	0.3	43.3	53.6
	2015	1068	57.8	11.5	21.9	57.8	6.1	2.5	0.1	50.5	65.0
Florida, US	2011	375	63.4	8.5	17.7	63.4	8.6	1.5	0.3	61.1	65.7
	2015	289	69.4	6.4	18.0	69.4	5.1	0.4	0.8	67.2	71.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M06\_03 (M051111): Number / Reasoning      Type: CR    1 Point  
Label: Get the largest number

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	26.7	72.0	1.2	0.1	26.7	26.6	26.8
	2015	868	25.7	71.5	2.8	0.0	25.7	29.4	22.2
Bahrain	2011	575	24.1	71.6	3.5	0.7	24.1	22.5	25.8
	2015	587	18.8	77.8	2.8	0.5	18.8	19.4	18.3
Belgium (Flemish)	2011	682	28.8	69.5	1.7	0.0	28.8	28.0	29.6
	2015	759	27.9	70.4	1.5	0.2	27.9	30.5	25.2
Chile	2011	791	22.9	72.6	3.9	0.6	22.9	20.6	25.5
	2015	682	18.6	74.8	5.3	1.3	18.6	18.7	18.4
Chinese Taipei	2011	603	39.1	60.5	0.3	0.0	39.1	39.5	38.8
	2015	616	44.5	55.3	0.2	0.0	44.5	43.8	45.2
Croatia	2011	649	31.0	64.8	4.2	0.0	31.0	30.1	31.9
	2015	560	31.1	66.6	2.2	0.1	31.1	32.6	29.7
Czech Republic	2011	647	36.0	63.0	1.0	0.0	36.0	34.4	37.3
	2015	742	38.5	60.0	1.3	0.2	38.5	42.2	34.3
Denmark	2011	575	44.4	50.3	3.9	1.4	44.4	41.3	47.8
	2015	525	41.8	53.8	2.5	1.9	41.8	37.0	46.0
England	2011	495	36.2	62.2	1.0	0.7	36.2	37.2	35.2
	2015	577	36.6	62.3	1.1	0.0	36.6	37.7	35.4
Finland	2011	661	44.9	53.7	1.3	0.0	44.9	49.2	41.4
	2015	722	37.5	60.6	1.6	0.3	37.5	40.0	35.1
Georgia	2011	677	16.5	75.6	6.9	1.0	16.5	15.7	17.2
	2015	555	15.5	79.0	4.1	1.4	15.5	15.0	16.0
Germany	2011	566	31.7	66.3	2.1	0.0	31.7	31.7	31.6
	2015	562	34.1	63.9	1.9	0.2	34.1	37.1	31.4
Hong Kong SAR	2011	556	45.2	53.8	1.1	0.0	45.2	46.4	44.2
	2015	516	54.6	45.2	0.2	0.0	54.6	55.3	54.1
Hungary	2011	746	29.1	68.9	1.2	0.8	29.1	30.2	28.1
	2015	717	27.7	70.2	1.9	0.2	27.7	30.0	25.5
Iran, Islamic Rep. of	2011	824	7.1	82.3	9.5	1.1	7.1	6.7	7.5
	2015	541	3.4	77.0	17.7	2.0	3.4	3.7	3.0
Ireland	2011	652	18.8	79.9	1.2	0.1	18.8	17.0	20.7
	2015	621	24.1	75.3	0.7	0.0	24.1	29.5	19.5
Italy	2011	596	20.8	73.8	5.2	0.3	20.8	22.0	19.3
	2015	606	19.3	75.7	4.3	0.6	19.3	20.5	18.2
Japan	2011	627	55.4	44.6	0.0	0.0	55.4	53.7	57.1
	2015	622	51.1	48.6	0.1	0.1	51.1	47.6	54.3

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_03 (M051111): Number / Reasoning      Type: CR    1 Point  
Label: Get the largest number

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	27.3	66.0	5.8	1.0	27.3	28.3	26.3
	2015	664	29.8	67.6	2.6	0.0	29.8	30.0	29.7
Korea, Rep. of	2011	619	51.3	48.7	0.0	0.0	51.3	50.3	52.2
	2015	674	55.6	44.4	0.0	0.0	55.6	50.8	60.2
Kuwait	2011	585	12.5	78.4	8.1	1.0	12.5	11.4	13.8
	2015	506	9.9	74.7	14.3	1.1	9.9	10.5	9.4
Lithuania	2011	669	30.8	66.5	2.8	0.0	30.8	30.5	31.0
	2015	638	28.3	69.3	2.2	0.1	28.3	30.0	26.7
Morocco	2011	1131	7.3	76.3	15.3	1.1	7.3	7.8	6.8
	2015	713	12.0	74.5	11.7	1.7	12.0	13.3	10.8
Netherlands	2011	460	34.1	63.9	2.0	0.0	34.1	28.9	39.7
	2015	641	34.3	64.8	0.7	0.2	34.3	31.6	36.8
New Zealand	2011	815	25.9	72.2	1.6	0.3	25.9	27.5	24.3
	2015	896	30.1	65.8	4.0	0.1	30.1	27.7	32.2
Northern Ireland	2011	502	25.4	73.0	1.6	0.0	25.4	24.2	26.5
	2015	446	25.2	72.7	2.1	0.0	25.2	20.8	29.4
Oman	2011	1490	15.4	80.7	3.6	0.4	15.4	13.8	16.7
	2015	1306	18.8	78.0	3.0	0.3	18.8	17.2	20.4
Portugal	2011	580	26.5	72.3	1.1	0.0	26.5	32.6	20.5
	2015	669	22.7	76.5	0.8	0.0	22.7	24.3	20.8
Qatar	2011	595	14.8	81.8	2.8	0.6	14.8	14.0	15.5
	2015	739	14.8	80.0	4.4	0.8	14.8	14.1	15.6
Russian Federation	2011	644	33.9	64.1	1.5	0.4	33.9	33.9	34.0
	2015	710	38.8	58.9	2.2	0.1	38.8	41.8	36.1
Saudi Arabia	2011	657	25.7	69.5	4.6	0.2	25.7	26.6	24.9
	2015	602	14.5	73.2	11.3	1.1	14.5	19.5	9.9
Serbia	2011	624	31.7	65.2	2.9	0.2	31.7	37.9	26.7
	2015	566	28.7	68.8	2.5	0.0	28.7	27.2	30.1
Singapore	2011	915	45.2	54.5	0.4	0.0	45.2	45.9	44.5
	2015	930	46.6	53.3	0.1	0.0	46.6	51.9	41.6
Slovak Republic	2011	809	31.9	65.9	2.2	0.0	31.9	36.3	27.6
	2015	837	27.5	70.4	2.0	0.1	27.5	27.8	27.3
Slovenia	2011	645	26.3	70.1	3.3	0.3	26.3	28.3	24.4
	2015	636	19.8	77.2	2.7	0.4	19.8	17.8	21.9
Spain	2011	613	21.5	72.7	4.7	1.1	21.5	19.9	22.9
	2015	1103	25.1	72.6	1.8	0.5	25.1	21.9	28.1

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M06\_03 (M051111): Number / Reasoning      Type: CR    1 Point  
Label: Get the largest number

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	38.3	58.2	2.6	0.9	38.3	39.1	37.5
	2015	588	45.7	51.6	2.5	0.2	45.7	43.7	47.2
Turkey	2011	1066	11.7	85.1	3.2	0.1	11.7	13.5	9.9
	2015	919	13.9	83.2	2.7	0.2	13.9	12.9	14.9
United Arab Emirates	2011	2087	16.2	79.0	4.5	0.3	16.2	16.1	16.3
	2015	3031	18.7	77.3	3.8	0.3	18.7	20.3	17.3
United States	2011	1759	26.3	71.9	1.5	0.4	26.3	27.1	25.4
	2015	1421	27.7	69.0	2.8	0.5	27.7	29.3	26.0
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International Avg (n=40)	2011	30377	28.5	68.0	3.1	0.4	28.5	28.7	28.3
	2015	30613	28.5	67.8	3.3	0.4	28.5	28.9	28.1
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Ontario, Canada	2011	645	29.7	68.6	1.5	0.2	29.7	30.3	29.1
	2015	658	26.0	71.9	1.8	0.3	26.0	27.1	25.1
Quebec, Canada	2011	616	28.8	70.0	1.2	0.0	28.8	32.2	25.2
	2015	399	29.8	66.9	3.4	0.0	29.8	26.0	33.3
Norway (4)	2011	434	28.9	68.1	2.5	0.4	28.9	30.3	27.4
	2015	600	30.0	66.2	3.3	0.5	30.0	34.8	25.1
Abu Dhabi, UAE	2011	591	15.9	80.5	3.4	0.1	15.9	14.7	17.1
	2015	716	13.9	82.4	3.3	0.4	13.9	14.6	13.3
Dubai, UAE	2011	867	18.3	76.8	4.6	0.3	18.3	20.2	16.7
	2015	1068	27.0	71.2	1.7	0.1	27.0	27.9	26.2
Florida, US	2011	375	26.1	71.9	1.7	0.3	26.1	26.3	26.0
	2015	289	30.3	68.1	0.8	0.8	30.3	29.9	30.7
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_04 (M051089): Number / Knowing      Type: CR    1 Point  
Label: Number shown by the arrow

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	27.3	66.1	6.5	0.1	27.3	25.9	28.6
	2015	868	28.1	65.0	6.8	0.0	28.1	26.8	29.3
Bahrain	2011	575	6.4	84.9	8.0	0.7	6.4	6.4	6.3
	2015	587	7.3	85.2	6.9	0.5	7.3	7.3	7.4
Belgium (Flemish)	2011	682	50.2	47.9	1.9	0.0	50.2	47.1	53.2
	2015	759	49.8	44.9	5.1	0.2	49.8	47.3	52.4
Chile	2011	791	9.4	77.3	12.2	1.1	9.4	10.2	8.4
	2015	682	12.7	72.6	13.2	1.5	12.7	13.0	12.4
Chinese Taipei	2011	603	65.6	31.8	2.7	0.0	65.6	61.7	68.8
	2015	616	74.2	22.4	3.4	0.0	74.2	72.1	76.2
Croatia	2011	649	10.3	62.1	27.4	0.1	10.3	6.2	14.1
	2015	560	15.1	69.6	15.3	0.1	15.1	10.3	19.9
Czech Republic	2011	647	19.7	58.7	21.6	0.0	19.7	18.1	21.1
	2015	742	19.1	63.1	17.7	0.2	19.1	17.6	20.8
Denmark	2011	575	45.2	44.4	9.0	1.4	45.2	38.7	52.5
	2015	525	34.1	55.7	7.9	2.3	34.1	27.7	39.7
England	2011	495	49.2	46.2	3.9	0.7	49.2	46.2	52.2
	2015	577	51.9	42.6	5.5	0.0	51.9	48.5	55.3
Finland	2011	661	36.6	54.8	8.6	0.0	36.6	35.0	37.9
	2015	722	38.9	54.6	6.1	0.5	38.9	43.3	35.0
Georgia	2011	678	7.7	64.4	26.8	1.1	7.7	4.3	10.6
	2015	555	6.9	67.1	24.2	1.8	6.9	6.1	7.7
Germany	2011	566	46.1	38.8	15.1	0.0	46.1	44.9	47.2
	2015	562	46.3	37.7	15.8	0.2	46.3	44.5	47.9
Hong Kong SAR	2011	556	58.8	37.5	3.6	0.0	58.8	54.7	62.2
	2015	516	69.9	28.9	1.2	0.0	69.9	68.6	71.1
Hungary	2011	746	21.1	61.0	17.2	0.8	21.1	17.2	24.8
	2015	717	26.0	59.1	14.6	0.3	26.0	26.6	25.3
Iran, Islamic Rep. of	2011	823	4.7	75.1	19.0	1.2	4.7	4.4	5.1
	2015	541	6.4	78.1	13.2	2.3	6.4	5.4	7.5
Ireland	2011	652	26.3	65.1	8.4	0.2	26.3	22.1	30.3
	2015	621	32.3	62.4	5.2	0.0	32.3	28.3	35.7
Italy	2011	596	25.9	57.4	16.3	0.4	25.9	22.9	29.4
	2015	608	24.5	60.9	13.7	0.9	24.5	19.1	29.2
Japan	2011	627	88.2	10.5	1.2	0.0	88.2	87.5	88.9
	2015	622	90.3	9.5	0.0	0.1	90.3	88.7	91.8

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_04 (M051089): Number / Knowing      Type: CR    1 Point  
Label: Number shown by the arrow

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	31.8	58.1	9.1	1.0	31.8	28.5	34.8
	2015	664	42.4	52.5	5.2	0.0	42.4	40.5	44.1
Korea, Rep. of	2011	619	83.8	15.1	1.1	0.0	83.8	84.8	82.8
	2015	674	86.5	13.4	0.1	0.0	86.5	85.3	87.6
Kuwait	2011	586	1.8	85.1	11.8	1.3	1.8	1.1	2.5
	2015	509	6.0	72.3	20.5	1.2	6.0	3.7	8.5
Lithuania	2011	669	31.6	59.3	9.1	0.0	31.6	30.4	32.7
	2015	638	26.0	56.1	17.8	0.1	26.0	23.9	28.0
Morocco	2011	1130	5.5	67.2	25.7	1.6	5.5	5.3	5.8
	2015	724	6.8	79.2	12.2	1.8	6.8	6.6	7.0
Netherlands	2011	460	31.9	64.1	4.0	0.0	31.9	32.6	31.3
	2015	641	27.2	67.7	4.8	0.2	27.2	24.8	29.6
New Zealand	2011	815	20.3	74.2	5.0	0.5	20.3	18.8	21.7
	2015	896	27.5	66.8	5.6	0.1	27.5	23.9	30.7
Northern Ireland	2011	502	48.5	44.4	7.0	0.0	48.5	44.9	51.8
	2015	446	52.9	41.1	6.0	0.0	52.9	50.5	55.3
Oman	2011	1490	5.5	84.6	9.3	0.5	5.5	5.5	5.5
	2015	1307	10.3	82.8	6.6	0.3	10.3	9.7	11.0
Portugal	2011	580	49.3	42.8	7.9	0.0	49.3	43.4	55.2
	2015	669	33.3	56.8	9.6	0.2	33.3	27.9	39.6
Qatar	2011	595	11.4	78.2	9.8	0.6	11.4	8.8	13.6
	2015	739	16.8	74.4	7.9	0.8	16.8	13.5	20.5
Russian Federation	2011	644	24.4	60.1	15.1	0.4	24.4	23.1	25.6
	2015	710	29.2	59.9	10.7	0.3	29.2	29.6	28.7
Saudi Arabia	2011	658	5.4	87.1	7.0	0.6	5.4	1.8	9.1
	2015	602	4.8	80.5	13.5	1.2	4.8	5.0	4.6
Serbia	2011	624	25.9	56.5	17.4	0.2	25.9	21.3	29.6
	2015	566	20.4	57.2	22.3	0.1	20.4	19.0	21.7
Singapore	2011	915	84.7	15.3	0.1	0.0	84.7	84.8	84.5
	2015	930	89.6	10.3	0.1	0.0	89.6	89.1	90.0
Slovak Republic	2011	809	33.7	54.9	11.4	0.0	33.7	35.2	32.2
	2015	837	22.5	62.4	14.8	0.3	22.5	20.5	24.3
Slovenia	2011	645	11.4	74.1	14.2	0.3	11.4	12.7	10.2
	2015	636	17.8	66.3	14.8	1.1	17.8	13.1	22.9
Spain	2011	613	23.2	58.6	17.0	1.3	23.2	19.9	26.0
	2015	1103	30.3	58.0	11.1	0.5	30.3	28.2	32.3

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_04 (M051089): Number / Knowing      Type: CR    1 Point  
Label: Number shown by the arrow

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
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Sweden	2011	676	16.8	64.4	17.6	1.1	16.8	19.0	14.5
	2015	588	23.7	64.0	12.1	0.2	23.7	20.4	27.0
Turkey	2011	1066	8.2	80.8	10.9	0.1	8.2	6.3	10.0
	2015	919	8.3	80.4	11.0	0.3	8.3	4.9	11.7
United Arab Emirates	2011	2087	12.3	78.9	8.3	0.5	12.3	10.4	14.0
	2015	3031	18.8	73.1	7.8	0.3	18.8	17.6	19.9
United States	2011	1759	21.3	72.5	5.7	0.4	21.3	18.7	24.2
	2015	1421	26.2	69.5	3.6	0.7	26.2	24.0	28.6
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International Avg (n=40)	2011	30378	29.7	59.0	10.9	0.5	29.7	27.8	31.5
	2015	30630	31.5	58.1	9.9	0.5	31.5	29.6	33.4
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Ontario, Canada	2011	645	15.0	78.5	6.3	0.2	15.0	10.6	19.1
	2015	658	19.6	74.5	5.4	0.6	19.6	15.4	23.3
Quebec, Canada	2011	616	21.2	68.6	10.2	0.1	21.2	20.3	22.2
	2015	399	34.1	59.1	6.0	0.7	34.1	27.8	40.0
Norway (4)	2011	434	17.0	68.5	14.0	0.4	17.0	14.4	20.0
	2015	600	21.1	67.0	11.2	0.7	21.1	20.4	21.8
Abu Dhabi, UAE	2011	591	8.1	83.7	8.0	0.3	8.1	5.7	10.4
	2015	716	11.8	82.0	5.8	0.4	11.8	11.0	12.5
Dubai, UAE	2011	867	20.3	70.6	8.8	0.3	20.3	18.6	21.8
	2015	1068	33.6	60.1	6.0	0.2	33.6	32.3	35.0
Florida, US	2011	375	49.9	46.7	3.1	0.3	49.9	48.2	51.7
	2015	289	24.5	72.1	2.7	0.8	24.5	19.0	30.7
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_05 (M051094): Number / Applying Type: MC Key: B  
Label: Money need to buy juice bottles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	48.7	15.5	48.7	16.1	17.0	1.8	0.9	49.2	48.3
	2015	868	52.6	18.8	52.6	11.1	15.2	2.3	0.1	50.6	54.4
Bahrain	2011	575	25.4	9.5	25.4	18.2	42.5	3.4	1.1	22.0	28.6
	2015	587	36.3	6.3	36.3	18.4	37.0	0.5	1.6	34.5	38.1
Belgium (Flemish)	2011	682	61.3	13.4	61.3	8.3	15.9	1.0	0.2	61.0	61.5
	2015	759	59.2	15.3	59.2	7.5	16.5	1.3	0.2	59.2	59.2
Chile	2011	791	31.8	10.7	31.8	18.7	33.7	3.4	1.7	29.7	34.1
	2015	682	28.4	11.1	28.4	20.2	34.8	3.1	2.5	26.6	30.2
Chinese Taipei	2011	603	60.9	5.1	60.9	4.3	29.0	0.7	0.0	60.8	60.9
	2015	616	60.6	5.7	60.6	6.0	26.6	1.1	0.0	57.7	63.3
Croatia	2011	649	48.8	13.0	48.8	10.6	23.6	3.7	0.3	45.2	52.2
	2015	560	51.0	13.4	51.0	10.9	23.0	1.7	0.1	51.5	50.4
Czech Republic	2011	647	48.9	19.0	48.9	9.7	17.5	4.9	0.0	49.6	48.3
	2015	742	50.9	20.2	50.9	9.5	15.3	3.9	0.2	47.9	54.4
Denmark	2011	575	52.6	19.1	52.6	6.8	14.1	5.6	1.8	51.1	54.4
	2015	525	59.2	20.9	59.2	4.6	9.2	2.7	3.4	55.8	62.2
England	2011	495	61.3	11.6	61.3	8.3	17.1	1.1	0.7	64.3	58.3
	2015	577	62.5	12.3	62.5	6.1	17.3	1.8	0.0	60.8	64.1
Finland	2011	661	60.1	19.9	60.1	6.2	12.4	1.4	0.0	57.5	62.3
	2015	722	58.4	17.8	58.4	9.6	11.4	2.0	0.8	58.4	58.3
Georgia	2011	678	31.9	7.3	31.9	14.3	40.3	4.3	1.8	28.5	34.9
	2015	555	40.6	6.4	40.6	14.4	29.9	6.9	1.8	39.6	41.6
Germany	2011	566	65.0	12.1	65.0	7.3	13.4	2.1	0.1	65.2	64.9
	2015	562	61.9	12.6	61.9	7.1	15.8	2.1	0.6	61.3	62.5
Hong Kong SAR	2011	556	68.1	10.8	68.1	9.3	10.9	0.9	0.0	70.2	66.4
	2015	516	72.8	10.1	72.8	6.3	9.7	1.0	0.0	70.8	74.7
Hungary	2011	746	46.0	11.1	46.0	13.0	25.7	3.2	1.0	42.5	49.4
	2015	717	47.6	10.0	47.6	14.4	24.1	3.5	0.5	41.5	53.6
Iran, Islamic Rep. of	2011	823	33.7	9.5	33.7	18.9	26.1	10.4	1.3	29.8	37.7
	2015	541	27.7	18.0	27.7	13.8	32.7	4.9	2.9	26.7	28.9
Ireland	2011	652	61.3	8.6	61.3	9.2	19.4	1.3	0.2	64.1	58.6
	2015	621	64.6	11.9	64.6	6.2	16.2	1.1	0.0	63.1	65.9
Italy	2011	596	40.9	9.5	40.9	9.4	37.1	2.4	0.8	37.1	45.3
	2015	608	47.3	10.3	47.3	10.2	27.6	3.5	1.0	46.9	47.7
Japan	2011	627	70.6	7.1	70.6	6.0	15.7	0.5	0.2	71.8	69.4
	2015	622	70.2	10.3	70.2	5.9	12.9	0.4	0.1	67.4	72.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_05 (M051094): Number / Applying Type: MC Key: B  
Label: Money need to buy juice bottles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	43.4	10.4	43.4	7.2	34.4	3.5	1.1	41.9	44.7
	2015	664	58.5	7.1	58.5	10.2	23.2	0.9	0.1	56.0	60.7
Korea, Rep. of	2011	619	76.0	5.3	76.0	2.5	16.0	0.3	0.0	79.7	72.4
	2015	674	75.4	3.1	75.4	3.2	17.9	0.3	0.0	75.2	75.6
Kuwait	2011	579	25.5	14.7	25.5	21.8	28.5	8.3	1.3	23.8	27.5
	2015	509	27.3	15.8	27.3	21.0	23.5	10.3	2.0	25.2	29.5
Lithuania	2011	669	63.7	12.1	63.7	8.2	14.7	1.3	0.0	68.0	59.9
	2015	638	61.7	12.5	61.7	4.1	19.4	2.2	0.1	62.7	60.6
Morocco	2011	984	31.9	12.7	31.9	24.7	26.6	3.6	0.5	29.2	34.6
	2015	722	22.3	13.2	22.3	23.3	32.9	6.1	2.2	16.9	27.2
Netherlands	2011	460	64.4	13.4	64.4	6.5	13.7	1.8	0.2	64.7	64.4
	2015	641	61.9	14.1	61.9	4.9	17.2	1.3	0.6	63.2	60.6
New Zealand	2011	815	43.3	19.2	43.3	15.3	20.5	1.3	0.5	41.9	44.7
	2015	896	47.3	19.7	47.3	14.0	16.2	2.4	0.4	44.7	49.6
Northern Ireland	2011	502	66.3	8.5	66.3	6.9	16.2	1.5	0.7	72.4	60.9
	2015	438	69.8	8.8	69.8	4.4	16.9	0.0	0.0	66.2	73.4
Oman	2011	1490	25.3	13.8	25.3	20.4	34.2	4.6	1.7	22.9	27.5
	2015	1305	27.4	14.5	27.4	19.0	34.5	4.3	0.3	25.0	29.8
Portugal	2011	580	54.0	7.1	54.0	10.8	25.3	2.8	0.0	54.3	53.7
	2015	669	56.6	7.7	56.6	9.3	23.5	2.6	0.2	54.8	58.7
Qatar	2011	595	35.3	13.2	35.3	17.6	29.7	3.6	0.6	30.3	39.6
	2015	739	30.0	14.3	30.0	14.8	36.3	2.9	1.7	26.1	34.2
Russian Federation	2011	644	57.1	8.4	57.1	7.8	23.6	2.6	0.6	56.5	57.7
	2015	710	59.3	7.2	59.3	6.3	24.5	2.2	0.5	58.3	60.2
Saudi Arabia	2011	657	26.2	15.0	26.2	23.5	33.5	1.2	0.6	22.2	30.5
	2015	602	26.5	15.0	26.5	26.3	26.2	4.8	1.2	22.2	30.4
Serbia	2011	624	52.1	8.9	52.1	11.2	22.4	4.8	0.6	48.5	55.0
	2015	566	47.2	8.2	47.2	12.0	26.8	5.4	0.3	45.1	49.0
Singapore	2011	914	77.1	4.4	77.1	6.4	11.7	0.4	0.0	77.4	76.9
	2015	930	78.5	5.2	78.5	5.5	10.2	0.5	0.0	79.4	77.7
Slovak Republic	2011	809	52.6	11.2	52.6	8.7	25.0	2.2	0.2	52.8	52.4
	2015	837	50.4	13.5	50.4	10.8	23.1	1.5	0.6	49.8	51.0
Slovenia	2011	645	53.5	14.7	53.5	9.8	17.4	4.3	0.4	55.6	51.5
	2015	636	53.9	11.5	53.9	10.8	19.4	3.1	1.2	50.9	57.2
Spain	2011	613	47.0	12.6	47.0	10.7	24.4	3.7	1.7	45.5	48.3
	2015	1103	58.5	11.7	58.5	8.3	18.3	1.9	1.2	54.7	62.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_05 (M051094): Number / Applying Type: MC Key: B  
Label: Money need to buy juice bottles

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	40.5	15.5	40.5	15.2	23.7	3.6	1.4	37.4	43.7
	2015	588	48.9	13.5	48.9	14.2	19.0	3.5	1.0	49.6	47.8
Turkey	2011	1066	43.3	9.8	43.3	12.5	31.7	2.6	0.2	42.1	44.4
	2015	919	47.4	9.2	47.4	12.8	27.7	2.4	0.3	45.7	49.2
United Arab Emirates	2011	2087	30.8	13.4	30.8	20.9	31.1	3.1	0.7	28.1	33.4
	2015	3031	36.2	11.2	36.2	16.8	31.8	3.6	0.4	35.5	36.9
United States	2011	1759	53.5	10.0	53.5	6.6	24.9	4.1	1.0	53.5	53.5
	2015	1421	57.7	8.3	57.7	6.8	23.7	2.5	1.1	56.3	59.1
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International Avg (n=40)	2011	30223	49.5	11.7	49.5	11.7	23.5	2.9	0.6	48.7	50.3
	2015	30618	51.4	11.9	51.4	11.0	22.2	2.7	0.8	49.6	53.1
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Ontario, Canada	2011	645	49.2	14.5	49.2	12.7	21.3	2.2	0.2	47.0	51.2
	2015	657	49.0	16.8	49.0	10.6	21.1	1.6	0.9	45.4	52.5
Quebec, Canada	2011	616	49.1	8.3	49.1	11.2	28.1	3.0	0.2	44.5	53.8
	2015	398	47.2	11.6	47.2	9.9	27.0	2.9	1.4	45.6	48.6
Norway (4)	2011	434	37.1	17.5	37.1	14.8	24.5	4.5	1.5	34.4	40.2
	2015	600	41.3	21.0	41.3	12.2	20.8	3.5	1.2	39.3	43.4
Abu Dhabi, UAE	2011	591	27.6	13.1	27.6	22.3	34.0	2.3	0.7	23.5	31.4
	2015	716	34.3	9.6	34.3	20.3	32.9	2.4	0.4	31.8	36.3
Dubai, UAE	2011	867	40.4	12.7	40.4	15.8	28.3	2.3	0.5	38.4	42.1
	2015	1068	50.5	9.8	50.5	11.4	25.7	2.2	0.4	50.8	50.3
Florida, US	2011	375	48.7	9.5	48.7	6.3	32.0	3.0	0.5	42.4	54.9
	2015	289	57.9	8.5	57.9	8.0	21.0	3.4	1.1	59.5	56.2
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M06\_06 (M051227): Number / Reasoning Type: CR 1 Point  
Label: Largest number described by a clue

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	20.9	27.1	46.5	4.5	0.9	20.9	20.0	21.8
	2015	868	20.8	10.3	63.1	5.6	0.1	20.8	20.4	21.1
Bahrain	2011	575	6.5	7.3	69.7	15.4	1.1	6.5	7.3	5.7
	2015	587	6.8	10.6	72.4	8.5	1.6	6.8	6.9	6.7
Belgium (Flemish)	2011	682	21.0	26.8	48.5	3.0	0.6	21.0	19.6	22.3
	2015	759	21.4	10.3	63.9	4.2	0.2	21.4	25.7	17.1
Chile	2011	791	6.4	9.8	70.5	11.3	2.0	6.4	5.3	7.6
	2015	682	5.3	7.8	71.9	12.2	2.8	5.3	5.0	5.7
Chinese Taipei	2011	603	36.7	6.1	52.4	4.8	0.0	36.7	34.6	38.5
	2015	616	34.0	27.9	34.3	3.8	0.0	34.0	26.7	41.1
Croatia	2011	649	25.9	16.0	47.4	10.4	0.3	25.9	27.6	24.2
	2015	560	22.8	8.7	60.3	8.1	0.1	22.8	23.1	22.5
Czech Republic	2011	647	16.0	26.4	43.7	13.9	0.1	16.0	16.3	15.7
	2015	742	19.7	18.8	49.4	11.7	0.3	19.7	22.5	16.5
Denmark	2011	575	24.9	17.5	39.7	15.2	2.7	24.9	22.5	27.6
	2015	525	23.7	12.0	49.3	10.9	4.2	23.7	23.0	24.3
England	2011	495	24.8	34.6	35.1	4.7	0.7	24.8	23.2	26.4
	2015	577	29.6	18.8	47.7	3.4	0.6	29.6	28.6	30.7
Finland	2011	661	31.5	8.8	51.7	7.8	0.1	31.5	32.3	30.9
	2015	722	28.7	19.2	43.6	7.5	0.9	28.7	33.7	24.3
Georgia	2011	678	8.9	5.6	59.2	24.4	1.8	8.9	7.1	10.5
	2015	555	10.6	20.7	46.5	20.3	2.0	10.6	10.7	10.5
Germany	2011	566	23.6	24.4	40.3	11.4	0.3	23.6	25.6	21.7
	2015	562	22.0	8.9	57.8	10.5	0.8	22.0	20.4	23.4
Hong Kong SAR	2011	556	26.4	13.1	56.0	4.5	0.0	26.4	22.8	29.3
	2015	516	28.8	14.4	55.3	1.6	0.0	28.8	28.1	29.4
Hungary	2011	746	25.6	13.8	51.6	8.0	1.0	25.6	27.2	24.0
	2015	717	31.3	14.2	50.0	3.7	0.8	31.3	38.3	24.5
Iran, Islamic Rep. of	2011	823	9.3	8.8	66.3	14.0	1.5	9.3	8.5	10.1
	2015	541	5.1	6.2	68.2	17.2	3.3	5.1	3.4	7.1
Ireland	2011	652	24.7	24.3	43.7	7.1	0.2	24.7	29.6	20.0
	2015	621	27.1	26.2	41.9	4.7	0.1	27.1	26.8	27.3
Italy	2011	596	18.8	15.6	51.6	13.0	1.0	18.8	19.6	17.8
	2015	608	16.5	20.5	50.2	11.3	1.4	16.5	16.4	16.7
Japan	2011	627	20.5	3.1	71.0	5.0	0.4	20.5	21.5	19.5
	2015	622	21.9	6.5	67.6	3.8	0.1	21.9	20.2	23.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M06\_06 (M051227): Number / Reasoning Type: CR 1 Point  
Label: Largest number described by a clue

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	18.3	8.3	59.9	11.9	1.6	18.3	19.1	17.5
	2015	664	28.7	8.1	56.8	6.3	0.1	28.7	30.6	27.0
Korea, Rep. of	2011	619	39.9	29.1	29.6	1.5	0.0	39.9	39.8	39.9
	2015	674	45.6	4.5	49.0	0.8	0.0	45.6	43.4	47.7
Kuwait	2011	587	1.5	1.5	73.5	21.4	2.0	1.5	1.9	1.0
	2015	509	1.7	1.4	68.0	26.8	2.1	1.7	0.7	2.7
Lithuania	2011	669	15.8	27.0	46.0	11.2	0.0	15.8	15.7	15.8
	2015	638	21.2	9.3	55.5	13.9	0.1	21.2	24.7	17.7
Morocco	2011	1129	1.9	0.8	61.8	32.9	2.7	1.9	1.7	2.1
	2015	725	3.1	1.0	72.5	21.1	2.2	3.1	4.3	2.1
Netherlands	2011	460	16.9	16.3	63.6	2.9	0.4	16.9	17.7	16.1
	2015	641	17.8	17.9	59.2	4.0	1.0	17.8	17.2	18.4
New Zealand	2011	815	14.0	10.9	67.9	6.6	0.5	14.0	14.6	13.5
	2015	896	16.9	13.9	63.2	5.6	0.4	16.9	15.4	18.2
Northern Ireland	2011	502	29.1	31.6	33.0	5.6	0.7	29.1	28.5	29.7
	2015	446	28.7	19.5	47.1	4.6	0.0	28.7	30.3	27.1
Oman	2011	1490	5.2	6.2	75.0	11.9	1.7	5.2	4.4	6.0
	2015	1306	12.2	7.3	72.1	7.8	0.6	12.2	12.6	11.8
Portugal	2011	580	28.9	30.9	35.6	4.4	0.2	28.9	29.7	28.1
	2015	669	28.4	28.4	39.2	3.7	0.2	28.4	28.6	28.3
Qatar	2011	595	4.2	4.0	78.4	12.5	0.9	4.2	2.9	5.3
	2015	739	7.5	7.0	71.8	12.1	1.7	7.5	5.5	9.7
Russian Federation	2011	644	28.8	13.5	48.3	9.0	0.6	28.8	32.5	25.1
	2015	710	29.1	23.6	39.2	7.5	0.6	29.1	32.0	26.5
Saudi Arabia	2011	658	5.2	2.4	81.0	10.9	0.6	5.2	3.5	6.9
	2015	602	4.1	3.3	67.7	23.6	1.4	4.1	6.2	2.2
Serbia	2011	624	31.5	12.6	37.7	17.3	0.8	31.5	35.2	28.5
	2015	566	34.2	14.4	31.9	19.3	0.3	34.2	35.5	33.0
Singapore	2011	915	43.7	8.0	47.4	0.9	0.0	43.7	45.8	41.8
	2015	930	42.3	21.1	36.2	0.3	0.0	42.3	43.2	41.5
Slovak Republic	2011	809	24.0	20.3	44.9	10.5	0.3	24.0	25.2	22.8
	2015	837	19.3	17.7	50.0	12.2	0.7	19.3	21.1	17.7
Slovenia	2011	645	11.4	4.2	68.7	15.3	0.4	11.4	14.0	9.0
	2015	636	14.1	9.9	61.3	13.3	1.4	14.1	16.4	11.7
Spain	2011	613	11.4	12.7	55.1	18.8	2.0	11.4	10.4	12.3
	2015	1103	19.3	19.1	49.7	10.4	1.5	19.3	15.8	22.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_06 (M051227): Number / Reasoning Type: CR 1 Point  
Label: Largest number described by a clue

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	22.4	22.1	44.6	9.3	1.6	22.4	23.9	20.9
	2015	588	30.9	9.9	51.7	6.4	1.1	30.9	37.1	24.4
Turkey	2011	1066	15.3	12.9	63.5	8.2	0.2	15.3	15.7	14.9
	2015	919	17.3	10.4	64.7	7.1	0.5	17.3	18.3	16.2
United Arab Emirates	2011	2087	8.5	11.5	67.1	12.0	0.8	8.5	9.1	8.0
	2015	3031	12.9	16.4	59.7	10.5	0.4	12.9	12.7	13.2
United States	2011	1759	24.8	32.3	37.0	4.6	1.4	24.8	25.9	23.5
	2015	1421	24.1	36.5	34.5	3.5	1.5	24.1	24.6	23.7
-----										
International Avg (n=40)	2011	30378	19.4	15.2	54.1	10.5	0.9	19.4	19.7	19.1
	2015	30630	20.9	14.1	54.9	9.2	0.9	20.9	21.4	20.4
-----										
Ontario, Canada	2011	645	25.5	27.1	42.0	5.2	0.2	25.5	23.8	27.1
	2015	658	21.8	14.3	58.0	4.5	1.4	21.8	16.5	26.6
Quebec, Canada	2011	616	21.5	27.7	44.2	6.4	0.2	21.5	20.6	22.4
	2015	399	25.2	27.7	42.7	2.9	1.5	25.2	23.3	27.1
Norway (4)	2011	434	12.7	15.9	53.5	15.5	2.3	12.7	10.6	15.2
	2015	600	16.5	16.6	52.8	12.8	1.3	16.5	17.2	15.8
Abu Dhabi, UAE	2011	591	5.5	8.5	73.6	11.7	0.7	5.5	6.1	4.9
	2015	716	8.5	16.0	65.0	10.0	0.5	8.5	7.4	9.3
Dubai, UAE	2011	867	15.3	16.9	57.7	9.5	0.6	15.3	15.8	15.0
	2015	1068	23.0	20.5	49.7	6.5	0.4	23.0	24.8	21.1
Florida, US	2011	375	28.1	30.7	36.8	3.8	0.5	28.1	30.1	26.1
	2015	289	28.6	36.8	30.3	2.8	1.5	28.6	31.9	24.7
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_07 (M051060): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: Which shape has symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	57.1	10.4	7.9	21.5	57.1	2.0	1.1	54.3	59.5
	2015	868	58.7	9.0	6.9	23.3	58.7	1.6	0.5	58.9	58.5
Bahrain	2011	575	31.1	13.1	12.6	36.4	31.1	5.6	1.2	32.5	29.8
	2015	587	56.6	10.8	7.6	20.2	56.6	3.1	1.7	57.8	55.4
Belgium (Flemish)	2011	682	45.1	18.6	11.1	20.1	45.1	4.3	0.7	40.9	49.3
	2015	759	50.2	18.7	7.4	17.4	50.2	5.9	0.3	49.1	51.4
Chile	2011	791	42.2	20.9	14.0	18.1	42.2	2.8	2.0	38.3	46.5
	2015	682	46.0	17.4	8.0	22.3	46.0	3.1	3.3	43.3	48.8
Chinese Taipei	2011	603	31.0	11.3	19.6	32.5	31.0	5.6	0.0	31.1	30.9
	2015	616	29.4	8.1	23.1	34.4	29.4	5.0	0.0	27.5	31.2
Croatia	2011	649	24.9	10.8	9.9	26.5	24.9	27.5	0.4	24.3	25.5
	2015	560	35.7	11.6	13.2	24.0	35.7	15.3	0.1	31.0	40.5
Czech Republic	2011	647	36.1	15.5	7.1	33.8	36.1	7.2	0.3	31.5	40.1
	2015	742	40.9	15.8	7.8	28.0	40.9	7.1	0.5	38.8	43.2
Denmark	2011	575	49.6	21.7	3.6	15.4	49.6	6.5	3.2	50.9	48.1
	2015	525	54.1	17.2	3.8	12.3	54.1	7.3	5.2	51.5	56.5
England	2011	495	72.9	6.5	3.8	14.2	72.9	1.7	0.8	72.0	73.8
	2015	577	67.1	8.1	3.3	19.9	67.1	1.1	0.6	64.2	69.9
Finland	2011	661	48.7	10.9	6.1	28.6	48.7	5.4	0.3	49.5	48.1
	2015	722	48.4	11.6	6.2	28.0	48.4	4.7	1.1	46.3	50.2
Georgia	2011	664	31.3	13.4	12.9	28.6	31.3	11.4	2.4	28.9	33.4
	2015	555	27.8	20.1	10.1	29.4	27.8	9.4	3.2	28.9	26.8
Germany	2011	566	51.5	9.3	6.0	18.0	51.5	14.7	0.5	50.9	52.1
	2015	562	47.6	10.6	6.3	21.2	47.6	13.2	1.0	46.6	48.6
Hong Kong SAR	2011	556	65.6	2.1	10.8	17.5	65.6	4.0	0.0	65.6	65.5
	2015	516	70.2	2.8	7.0	18.0	70.2	2.0	0.0	70.9	69.6
Hungary	2011	746	53.8	7.4	7.1	21.9	53.8	7.8	2.0	52.3	55.2
	2015	717	55.8	9.0	6.7	18.4	55.8	8.8	1.3	52.1	59.5
Iran, Islamic Rep. of	2011	823	44.2	9.3	16.3	22.2	44.2	6.2	1.8	43.6	44.8
	2015	541	33.5	7.9	15.4	33.1	33.5	6.5	3.6	31.3	36.0
Ireland	2011	652	56.8	12.1	5.7	21.1	56.8	4.1	0.2	51.2	62.2
	2015	621	64.1	9.0	6.1	19.3	64.1	1.4	0.1	63.4	64.6
Italy	2011	596	45.2	14.1	13.5	18.5	45.2	7.0	1.7	47.3	42.7
	2015	608	43.1	13.3	15.1	19.8	43.1	7.3	1.4	40.5	45.5
Japan	2011	627	34.4	12.2	11.4	36.4	34.4	5.2	0.4	31.7	37.2
	2015	622	31.7	11.8	9.7	40.9	31.7	5.6	0.1	29.3	33.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_07 (M051060): Geometric Shapes and Measures / Knowing Type: MC Key: D  
Label: Which shape has symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	52.5	9.2	8.0	23.2	52.5	4.8	2.3	51.6	53.2
	2015	664	59.5	11.0	11.0	17.1	59.5	1.2	0.2	59.0	59.9
Korea, Rep. of	2011	619	41.3	6.6	14.5	36.5	41.3	1.1	0.0	39.2	43.4
	2015	674	39.3	7.5	13.1	38.9	39.3	1.0	0.3	37.5	40.9
Kuwait	2011	578	27.3	18.0	13.6	28.3	27.3	10.8	2.0	26.5	28.3
	2015	509	24.6	20.1	11.7	28.1	24.6	12.9	2.7	28.2	20.9
Lithuania	2011	669	65.3	9.2	5.8	13.5	65.3	5.4	0.8	63.9	66.5
	2015	638	68.4	13.3	4.4	9.7	68.4	3.9	0.2	67.5	69.3
Morocco	2011	960	40.3	22.7	10.5	21.8	40.3	4.2	0.5	39.9	40.7
	2015	718	52.7	15.5	7.7	16.3	52.7	5.5	2.4	51.8	53.4
Netherlands	2011	460	43.9	24.3	10.4	18.0	43.9	3.0	0.4	40.4	47.9
	2015	641	49.6	20.3	8.9	17.7	49.6	2.1	1.4	47.1	52.1
New Zealand	2011	815	44.6	14.9	10.6	26.0	44.6	3.2	0.6	42.8	46.4
	2015	896	49.3	13.2	9.8	23.9	49.3	3.4	0.4	46.1	52.1
Northern Ireland	2011	502	74.5	6.1	3.0	13.1	74.5	2.7	0.7	75.3	73.8
	2015	438	79.2	6.1	2.8	11.5	79.2	0.4	0.0	73.7	84.5
Oman	2011	1490	27.6	17.5	9.4	36.8	27.6	6.3	2.4	26.2	28.8
	2015	1300	42.2	12.6	12.7	28.1	42.2	4.0	0.4	43.4	40.9
Portugal	2011	580	62.6	9.3	7.1	17.1	62.6	3.6	0.2	58.1	67.1
	2015	669	55.8	11.7	8.0	20.3	55.8	3.6	0.5	56.7	54.8
Qatar	2011	595	32.5	16.6	7.9	36.6	32.5	5.3	1.0	32.0	33.0
	2015	739	33.4	17.9	10.2	31.3	33.4	5.4	1.9	34.7	31.9
Russian Federation	2011	644	58.4	9.9	7.0	19.8	58.4	4.2	0.7	58.3	58.6
	2015	710	64.5	9.2	6.7	15.6	64.5	3.4	0.6	65.3	63.8
Saudi Arabia	2011	657	31.2	20.2	11.6	36.0	31.2	0.4	0.6	31.7	30.8
	2015	599	22.1	18.5	13.2	36.8	22.1	7.5	2.0	24.3	20.1
Serbia	2011	624	44.5	13.1	7.2	18.7	44.5	14.9	1.7	43.2	45.5
	2015	566	52.4	16.1	7.7	15.2	52.4	8.1	0.5	51.1	53.4
Singapore	2011	915	79.0	6.7	2.5	11.3	79.0	0.4	0.0	75.9	81.9
	2015	930	81.3	5.6	1.5	11.5	81.3	0.2	0.0	80.4	82.1
Slovak Republic	2011	809	34.1	14.7	8.9	33.2	34.1	8.5	0.5	33.1	35.2
	2015	837	31.9	16.6	8.5	32.1	31.9	9.9	1.0	24.8	38.6
Slovenia	2011	637	71.2	7.4	3.0	16.1	71.2	1.7	0.6	75.9	67.0
	2015	636	72.5	6.5	3.5	12.5	72.5	3.6	1.5	75.3	69.4
Spain	2011	613	35.2	15.2	6.0	26.7	35.2	14.8	2.1	35.2	35.2
	2015	1103	44.8	11.1	8.7	25.6	44.8	8.1	1.7	46.7	43.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_07 (M051060): Geometric Shapes and Measures / Knowing      Type: MC      Key: D  
Label: Which shape has symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	33.2	19.6	15.6	16.8	33.2	12.6	2.2	33.5	32.9
	2015	588	46.2	15.1	8.0	20.9	46.2	8.1	1.6	42.5	50.5
Turkey	2011	1065	42.0	15.2	6.9	34.0	42.0	1.4	0.4	41.1	42.8
	2015	919	55.5	10.3	5.6	27.4	55.5	0.5	0.7	52.5	58.5
United Arab Emirates	2011	2087	36.2	18.8	11.0	28.4	36.2	4.6	1.0	35.9	36.5
	2015	3031	46.4	16.1	8.1	24.6	46.4	4.0	0.8	46.4	46.4
United States	2011	1759	60.6	8.8	5.4	19.4	60.6	4.2	1.6	58.7	62.7
	2015	1421	59.8	8.7	7.3	20.4	59.8	2.0	1.8	57.6	62.1
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International Avg (n=40)	2011	30176	46.5	13.1	9.1	24.1	46.5	6.2	1.0	45.4	47.6
	2015	30606	49.8	12.4	8.6	22.9	49.8	5.2	1.2	48.6	51.0
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Ontario, Canada	2011	645	66.3	3.7	5.7	21.5	66.3	2.5	0.3	64.7	67.8
	2015	656	61.7	8.6	4.9	22.0	61.7	1.0	1.9	58.8	64.5
Quebec, Canada	2011	616	42.3	12.9	10.1	28.6	42.3	5.9	0.3	42.9	41.6
	2015	397	40.4	12.7	8.8	34.8	40.4	1.9	1.5	39.4	41.3
Norway (4)	2011	434	48.5	7.7	10.3	26.2	48.5	4.7	2.6	43.7	53.8
	2015	600	55.9	11.2	4.7	20.9	55.9	5.4	2.0	59.1	52.6
Abu Dhabi, UAE	2011	591	35.6	21.0	12.0	26.5	35.6	4.1	0.7	34.2	36.9
	2015	716	45.5	18.7	7.7	23.4	45.5	3.7	0.9	45.1	45.9
Dubai, UAE	2011	867	41.3	16.4	11.0	26.2	41.3	4.4	0.7	39.3	42.9
	2015	1068	58.5	10.5	4.9	22.7	58.5	3.0	0.4	60.1	56.9
Florida, US	2011	375	69.0	5.3	4.2	19.0	69.0	2.1	0.5	64.1	73.8
	2015	289	74.7	5.2	3.9	13.3	74.7	1.4	1.5	72.8	76.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M06\_08Z (M051061Z): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Units of length (Derived)

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	35.4	62.2	1.3	1.1	35.4	27.5	42.2
	2015	868	37.3	59.5	2.7	0.5	37.3	31.0	43.2
Bahrain	2011	575	6.6	87.5	4.7	1.2	6.6	4.2	8.9
	2015	587	9.7	83.9	3.6	2.7	9.7	7.7	11.7
Belgium (Flemish)	2011	682	59.5	39.5	0.3	0.7	59.5	55.6	63.3
	2015	759	54.2	43.4	2.1	0.3	54.2	51.0	57.5
Chile	2011	791	8.0	84.6	4.9	2.4	8.0	4.3	12.1
	2015	682	7.2	84.2	5.3	3.3	7.2	5.4	9.2
Chinese Taipei	2011	603	57.9	41.2	1.0	0.0	57.9	48.4	65.9
	2015	616	54.6	45.1	0.3	0.0	54.6	47.9	61.0
Croatia	2011	649	47.8	50.1	1.1	0.9	47.8	40.1	55.1
	2015	560	48.9	50.3	0.7	0.1	48.9	41.1	56.8
Czech Republic	2011	647	55.2	42.3	2.1	0.4	55.2	52.6	57.5
	2015	742	48.8	49.7	0.9	0.6	48.8	41.5	57.2
Denmark	2011	575	36.4	58.6	1.8	3.2	36.4	29.3	44.3
	2015	525	40.2	52.4	1.7	5.7	40.2	31.1	48.2
England	2011	495	37.5	61.2	0.5	0.8	37.5	33.3	41.6
	2015	577	34.2	64.5	0.7	0.6	34.2	26.9	41.4
Finland	2011	661	51.1	47.1	1.3	0.5	51.1	47.5	54.0
	2015	722	55.8	40.1	2.7	1.3	55.8	55.7	55.9
Georgia	2011	678	23.4	68.1	5.1	3.4	23.4	19.5	26.7
	2015	555	24.2	68.4	4.1	3.3	24.2	19.7	28.5
Germany	2011	566	45.1	53.4	0.9	0.6	45.1	35.4	54.2
	2015	562	45.5	52.6	0.9	1.0	45.5	35.3	54.4
Hong Kong SAR	2011	556	50.1	49.2	0.8	0.0	50.1	45.2	53.9
	2015	516	55.4	44.1	0.5	0.0	55.4	52.0	58.4
Hungary	2011	746	47.0	49.6	1.5	2.0	47.0	41.4	52.4
	2015	717	48.7	49.4	0.3	1.5	48.7	41.1	56.2
Iran, Islamic Rep. of	2011	823	7.1	84.4	6.4	2.1	7.1	4.1	10.2
	2015	541	9.6	79.8	5.5	5.0	9.6	8.2	11.2
Ireland	2011	652	25.7	72.3	1.8	0.3	25.7	18.3	32.8
	2015	621	28.9	70.4	0.6	0.1	28.9	21.6	35.0
Italy	2011	596	68.1	28.2	1.9	1.8	68.1	63.0	74.0
	2015	607	33.5	63.6	1.2	1.7	33.5	25.3	40.8
Japan	2011	627	51.4	47.7	0.5	0.4	51.4	48.2	54.6
	2015	622	53.3	46.4	0.0	0.3	53.3	43.9	61.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_08Z (M051061Z): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Units of length (Derived)

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	30.6	62.8	4.3	2.3	30.6	27.9	33.1
	2015	664	40.2	56.8	2.9	0.2	40.2	33.7	46.1
Korea, Rep. of	2011	619	45.4	54.4	0.2	0.0	45.4	39.2	51.3
	2015	674	42.9	56.0	0.9	0.3	42.9	35.7	49.8
Kuwait	2011	585	4.1	79.8	13.6	2.5	4.1	4.2	4.0
	2015	509	4.9	75.9	16.2	3.1	4.9	5.2	4.6
Lithuania	2011	669	38.0	60.0	1.3	0.8	38.0	28.9	45.9
	2015	638	38.4	59.8	1.5	0.2	38.4	26.4	50.4
Morocco	2011	1125	11.9	69.4	15.2	3.5	11.9	11.6	12.2
	2015	728	7.7	80.6	9.1	2.6	7.7	6.9	8.5
Netherlands	2011	460	56.4	41.8	1.4	0.4	56.4	47.6	65.9
	2015	641	60.2	37.9	0.4	1.5	60.2	55.0	65.3
New Zealand	2011	815	33.6	63.7	1.9	0.9	33.6	24.4	42.5
	2015	896	33.2	62.3	3.9	0.5	33.2	28.3	37.7
Northern Ireland	2011	502	38.8	59.2	1.3	0.7	38.8	28.9	47.7
	2015	446	36.3	62.8	0.8	0.2	36.3	30.7	41.8
Oman	2011	1490	4.0	86.5	6.6	2.9	4.0	3.1	4.9
	2015	1306	6.5	89.6	3.1	0.8	6.5	6.3	6.7
Portugal	2011	580	29.5	68.9	1.3	0.2	29.5	23.1	36.0
	2015	669	27.4	70.8	1.1	0.8	27.4	20.5	35.4
Qatar	2011	595	8.4	83.0	7.6	1.0	8.4	8.0	8.8
	2015	739	12.1	82.2	3.6	2.1	12.1	6.7	18.0
Russian Federation	2011	644	53.6	43.6	2.0	0.7	53.6	45.3	61.7
	2015	710	62.5	35.7	1.2	0.6	62.5	59.1	65.7
Saudi Arabia	2011	658	5.9	86.6	6.9	0.6	5.9	2.0	10.0
	2015	601	10.2	76.4	11.2	2.2	10.2	9.5	10.9
Serbia	2011	624	40.4	55.9	2.0	1.7	40.4	30.9	47.9
	2015	566	46.4	50.2	2.5	1.0	46.4	37.6	53.9
Singapore	2011	915	29.5	70.3	0.2	0.0	29.5	23.9	34.6
	2015	930	31.6	68.3	0.1	0.0	31.6	30.8	32.4
Slovak Republic	2011	809	50.0	48.1	1.3	0.5	50.0	41.6	58.3
	2015	837	52.6	44.8	1.2	1.4	52.6	47.3	57.7
Slovenia	2011	645	57.8	40.6	1.0	0.6	57.8	52.2	62.9
	2015	636	57.3	40.2	1.0	1.5	57.3	49.5	65.7
Spain	2011	613	21.5	74.3	1.8	2.5	21.5	14.7	27.4
	2015	1103	29.5	66.5	1.7	2.2	29.5	22.7	36.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_08Z (M051061Z): Geometric Shapes and Measures / Knowing      Type: CR      1 Point  
Label: Units of length (Derived)

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	46.4	48.2	2.4	3.1	46.4	40.9	51.9
	2015	588	48.1	48.5	1.4	1.9	48.1	47.7	48.4
Turkey	2011	1066	14.9	82.0	2.6	0.5	14.9	11.6	18.2
	2015	919	17.1	79.6	2.7	0.7	17.1	14.1	20.2
United Arab Emirates	2011	2087	12.2	83.3	3.6	1.0	12.2	8.7	15.5
	2015	3030	13.4	81.8	3.9	0.8	13.4	10.3	16.2
United States	2011	1759	19.4	78.3	0.7	1.7	19.4	14.6	24.6
	2015	1421	17.6	79.5	0.9	2.0	17.6	13.0	22.4
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International Avg (n=40)	2011	30372	34.1	61.7	2.9	1.2	34.1	28.8	39.2
	2015	30630	34.6	61.4	2.6	1.4	34.6	29.6	39.5
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Ontario, Canada	2011	645	45.6	50.9	2.7	0.9	45.6	37.3	53.4
	2015	658	42.7	53.6	1.7	2.0	42.7	37.8	47.2
Quebec, Canada	2011	615	54.0	43.6	1.9	0.6	54.0	49.9	58.3
	2015	399	53.9	43.1	1.3	1.7	53.9	48.5	58.9
Norway (4)	2011	434	32.2	60.8	4.0	3.0	32.2	26.4	38.7
	2015	600	25.6	67.1	5.4	2.0	25.6	21.0	30.2
Abu Dhabi, UAE	2011	591	10.4	85.1	3.8	0.7	10.4	8.5	12.2
	2015	716	8.8	85.9	4.4	0.9	8.8	6.5	10.7
Dubai, UAE	2011	867	17.3	79.5	2.5	0.7	17.3	12.9	20.8
	2015	1067	22.2	74.1	3.3	0.4	22.2	17.7	26.6
Florida, US	2011	375	14.3	83.3	1.9	0.5	14.3	8.1	20.3
	2015	289	18.2	79.5	0.8	1.5	18.2	14.6	22.3
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M06\_09 (M051129): Geometric Shapes and Measures / Reasoning      Type: MC      Key: B  
Label: Solid with the largest volume

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	70.2	2.6	70.2	22.4	1.8	1.9	1.1	69.4	70.8
	2015	868	74.2	3.4	74.2	17.0	2.1	2.6	0.7	74.1	74.3
Bahrain	2011	575	55.1	5.1	55.1	32.4	2.7	3.2	1.6	55.8	54.4
	2015	587	65.0	6.4	65.0	21.7	3.5	0.7	2.7	64.8	65.2
Belgium (Flemish)	2011	682	81.5	1.6	81.5	14.7	0.1	1.4	0.7	84.0	79.0
	2015	759	75.4	1.2	75.4	17.4	2.0	3.5	0.4	78.3	72.4
Chile	2011	791	53.4	5.7	53.4	32.9	3.2	1.7	3.2	50.3	56.7
	2015	682	57.4	5.6	57.4	27.2	3.0	2.4	4.5	56.5	58.3
Chinese Taipei	2011	603	88.5	0.2	88.5	8.9	1.0	1.4	0.0	90.5	86.8
	2015	616	87.5	0.9	87.5	10.2	1.3	0.2	0.0	85.8	89.1
Croatia	2011	649	53.8	1.4	53.8	36.6	4.3	2.4	1.6	46.9	60.4
	2015	560	62.0	0.8	62.0	31.1	3.1	2.9	0.1	56.8	67.3
Czech Republic	2011	647	69.3	2.7	69.3	22.8	3.0	1.5	0.6	68.7	69.8
	2015	742	71.8	1.5	71.8	21.7	2.5	1.6	0.9	68.9	75.1
Denmark	2011	575	65.6	2.2	65.6	20.8	2.8	5.1	3.6	60.9	70.8
	2015	525	60.9	2.3	60.9	23.3	2.6	4.9	5.9	59.9	61.9
England	2011	495	67.3	2.5	67.3	24.5	3.2	1.7	0.8	68.9	65.7
	2015	577	66.9	1.6	66.9	26.0	2.7	2.0	0.7	61.7	72.1
Finland	2011	661	68.0	4.5	68.0	16.4	9.1	1.2	0.8	68.7	67.4
	2015	722	64.4	4.7	64.4	19.4	6.5	3.0	2.0	66.5	62.6
Georgia	2011	678	45.9	5.7	45.9	36.9	3.9	4.0	3.6	41.5	49.7
	2015	555	49.6	5.5	49.6	33.7	4.4	2.6	4.3	47.6	51.5
Germany	2011	566	73.1	0.5	73.1	20.2	2.7	3.0	0.6	74.3	71.9
	2015	562	70.7	1.9	70.7	21.2	1.5	3.4	1.3	66.9	74.1
Hong Kong SAR	2011	556	76.0	0.2	76.0	21.2	2.1	0.5	0.0	75.1	76.7
	2015	516	72.8	1.0	72.8	24.2	1.9	0.2	0.0	66.3	78.5
Hungary	2011	746	59.2	2.9	59.2	26.8	6.5	1.9	2.8	56.3	62.1
	2015	717	66.5	1.8	66.5	22.4	5.2	2.5	1.5	62.0	70.9
Iran, Islamic Rep. of	2011	823	40.7	6.7	40.7	42.7	3.3	3.7	2.9	36.6	44.9
	2015	541	45.5	5.5	45.5	35.3	4.8	2.2	6.7	45.1	46.1
Ireland	2011	652	63.1	2.0	63.1	31.8	1.3	1.4	0.3	60.0	66.2
	2015	621	68.8	2.7	68.8	25.9	1.4	0.7	0.4	64.7	72.3
Italy	2011	596	57.1	3.4	57.1	31.4	1.6	4.4	2.1	55.1	59.3
	2015	608	59.1	3.2	59.1	30.7	2.1	2.8	2.0	61.5	57.0
Japan	2011	627	72.6	1.0	72.6	24.6	0.6	0.4	0.8	70.7	74.5
	2015	622	77.6	2.2	77.6	18.3	1.2	0.3	0.3	77.6	77.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_09 (M051129): Geometric Shapes and Measures / Reasoning      Type: MC      Key: B  
Label: Solid with the largest volume

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	46.1	6.0	46.1	33.1	8.6	3.0	3.1	45.3	46.9
	2015	664	61.7	6.9	61.7	25.2	2.8	2.7	0.7	57.6	65.4
Korea, Rep. of	2011	619	91.8	0.0	91.8	7.9	0.3	0.0	0.0	87.6	95.8
	2015	674	88.5	0.1	88.5	10.3	0.3	0.4	0.5	89.7	87.3
Kuwait	2011	580	34.0	15.7	34.0	35.0	7.4	5.1	2.8	35.3	32.5
	2015	509	36.5	11.4	36.5	31.5	8.7	7.4	4.4	38.3	34.6
Lithuania	2011	669	75.2	2.9	75.2	16.8	1.4	2.7	0.9	75.7	74.7
	2015	638	81.4	0.8	81.4	15.4	1.2	0.7	0.4	76.1	86.6
Morocco	2011	944	44.1	11.3	44.1	34.6	7.3	1.8	0.8	47.4	40.7
	2015	720	40.5	7.4	40.5	34.6	8.3	5.3	3.8	40.5	40.6
Netherlands	2011	460	83.0	1.1	83.0	13.3	0.9	1.1	0.6	79.5	86.7
	2015	641	84.5	0.7	84.5	11.3	0.7	1.2	1.5	81.8	87.2
New Zealand	2011	815	61.5	4.6	61.5	24.9	5.0	2.9	1.2	59.6	63.2
	2015	896	66.0	3.5	66.0	21.8	4.2	3.6	0.9	62.3	69.4
Northern Ireland	2011	502	62.6	2.7	62.6	29.9	3.1	1.1	0.7	59.3	65.5
	2015	438	71.3	1.3	71.3	22.9	4.0	0.5	0.0	69.4	73.1
Oman	2011	1490	40.7	7.6	40.7	39.1	5.9	3.2	3.4	40.5	40.9
	2015	1305	43.3	7.7	43.3	39.0	7.0	2.2	0.9	39.8	46.7
Portugal	2011	580	78.5	1.8	78.5	17.3	0.8	0.8	0.8	77.6	79.3
	2015	669	71.3	1.9	71.3	20.7	2.6	2.1	1.4	68.9	74.1
Qatar	2011	595	45.2	9.8	45.2	35.1	5.5	2.8	1.6	44.6	45.8
	2015	739	46.7	7.9	46.7	36.2	4.2	2.5	2.4	45.7	47.9
Russian Federation	2011	644	68.5	2.2	68.5	23.8	2.4	1.7	1.4	70.4	66.6
	2015	710	77.8	1.5	77.8	16.4	2.6	0.8	0.9	77.2	78.2
Saudi Arabia	2011	655	48.8	8.5	48.8	33.6	6.5	1.6	1.0	50.0	47.6
	2015	599	43.9	10.5	43.9	32.2	7.0	3.4	3.1	48.9	39.4
Serbia	2011	624	61.7	2.4	61.7	28.2	1.1	4.4	2.1	60.5	62.7
	2015	566	65.8	1.8	65.8	22.4	2.3	6.4	1.3	63.7	67.6
Singapore	2011	915	75.5	1.5	75.5	20.5	1.7	0.7	0.0	75.3	75.7
	2015	930	77.8	1.4	77.8	18.6	1.5	0.6	0.0	75.5	79.9
Slovak Republic	2011	809	61.7	3.3	61.7	31.7	1.3	1.2	0.7	57.6	65.8
	2015	837	65.6	1.8	65.6	26.0	2.2	3.0	1.5	67.8	63.5
Slovenia	2011	643	49.1	10.8	49.1	28.2	8.8	2.3	0.8	48.5	49.7
	2015	636	53.1	9.2	53.1	26.5	7.4	2.2	1.7	49.9	56.5
Spain	2011	613	53.2	3.3	53.2	33.7	3.1	3.8	2.8	49.5	56.5
	2015	1103	64.8	2.1	64.8	25.1	2.5	2.9	2.6	61.7	67.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_09 (M051129): Geometric Shapes and Measures / Reasoning      Type: MC      Key: B  
Label: Solid with the largest volume

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	60.3	3.6	60.3	26.3	3.0	3.2	3.6	56.5	64.3
	2015	588	67.1	3.1	67.1	20.5	2.2	4.6	2.6	68.1	66.2
Turkey	2011	1066	44.6	5.1	44.6	42.0	6.7	0.8	0.7	42.1	47.1
	2015	919	50.5	4.3	50.5	37.8	5.7	0.9	0.8	46.6	54.5
United Arab Emirates	2011	2087	45.9	7.7	45.9	38.8	4.5	1.9	1.1	42.2	49.5
	2015	3031	52.6	7.6	52.6	31.4	4.2	3.1	1.0	51.7	53.4
United States	2011	1759	69.5	3.0	69.5	22.0	2.4	1.1	2.1	68.6	70.4
	2015	1421	68.5	3.1	68.5	22.1	2.1	1.7	2.4	65.1	72.1
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International Avg (n=40)	2011	30181	61.6	4.1	61.6	27.1	3.5	2.2	1.5	60.2	62.9
	2015	30613	64.4	3.7	64.4	24.4	3.4	2.4	1.7	62.8	66.0
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Ontario, Canada	2011	645	64.3	2.3	64.3	25.9	2.9	2.6	2.1	61.7	66.7
	2015	656	69.0	2.2	69.0	21.6	2.2	2.3	2.7	70.0	68.2
Quebec, Canada	2011	616	72.8	1.1	72.8	19.3	3.0	3.2	0.6	67.4	78.5
	2015	398	77.5	2.5	77.5	15.4	1.4	1.1	2.2	73.9	80.7
Norway (4)	2011	434	59.6	3.9	59.6	26.7	1.0	5.2	3.7	57.9	61.4
	2015	600	66.2	3.6	66.2	20.4	1.5	5.6	2.7	66.0	66.4
Abu Dhabi, UAE	2011	591	44.3	8.1	44.3	40.2	4.8	1.7	0.8	44.6	44.1
	2015	716	51.2	9.5	51.2	30.1	4.7	3.4	1.1	48.7	53.1
Dubai, UAE	2011	867	49.9	5.9	49.9	38.1	3.2	2.2	0.8	43.1	55.3
	2015	1068	63.3	5.1	63.3	24.8	3.8	2.4	0.5	62.5	64.2
Florida, US	2011	375	68.3	1.9	68.3	26.2	1.3	0.5	1.8	67.9	68.7
	2015	289	70.1	2.6	70.1	22.7	2.4	0.3	1.9	68.9	71.6
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M06\_10 (M051236): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: In what square is the treasure

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	68.7	28.4	1.6	1.4	68.7	69.1	68.4
	2015	868	63.8	33.8	1.7	0.7	63.8	66.7	61.1
Bahrain	2011	575	21.5	71.8	4.1	2.5	21.5	20.9	22.2
	2015	587	26.0	67.3	4.0	2.7	26.0	29.2	22.7
Belgium (Flemish)	2011	682	70.0	28.6	0.7	0.7	70.0	69.1	70.9
	2015	759	70.8	27.8	0.9	0.5	70.8	73.2	68.2
Chile	2011	791	26.6	63.2	6.4	3.8	26.6	24.4	29.1
	2015	682	38.5	51.4	5.1	5.0	38.5	38.3	38.9
Chinese Taipei	2011	603	69.8	29.6	0.7	0.0	69.8	69.2	70.3
	2015	616	73.8	25.5	0.6	0.0	73.8	74.6	73.1
Croatia	2011	649	56.0	40.1	2.3	1.6	56.0	52.6	59.2
	2015	560	50.7	48.6	0.6	0.1	50.7	47.5	54.0
Czech Republic	2011	647	57.2	39.9	2.1	0.8	57.2	55.8	58.4
	2015	742	64.1	33.5	1.0	1.4	64.1	64.7	63.4
Denmark	2011	575	61.6	30.0	4.3	4.2	61.6	57.4	66.3
	2015	525	56.2	32.8	4.0	7.0	56.2	52.9	59.2
England	2011	495	71.5	26.7	0.9	0.8	71.5	75.4	67.8
	2015	577	71.0	27.6	0.7	0.7	71.0	69.5	72.4
Finland	2011	661	67.0	29.3	2.9	0.8	67.0	67.6	66.5
	2015	722	60.5	34.0	2.6	2.9	60.5	64.1	57.2
Georgia	2011	678	11.0	70.1	15.0	3.9	11.0	7.4	14.1
	2015	555	18.6	64.5	12.6	4.3	18.6	18.7	18.5
Germany	2011	566	57.3	39.0	3.0	0.8	57.3	58.6	56.0
	2015	562	54.2	41.1	3.4	1.3	54.2	54.0	54.3
Hong Kong SAR	2011	556	74.6	24.9	0.5	0.0	74.6	75.4	74.0
	2015	516	76.4	23.5	0.0	0.2	76.4	76.7	76.0
Hungary	2011	746	59.9	35.0	1.9	3.2	59.9	58.8	61.1
	2015	717	61.4	35.4	1.4	1.9	61.4	60.9	61.8
Iran, Islamic Rep. of	2011	823	12.2	76.1	8.3	3.4	12.2	12.4	12.1
	2015	541	2.7	80.8	8.4	8.1	2.7	4.5	0.6
Ireland	2011	652	55.0	42.4	2.3	0.3	55.0	53.1	56.8
	2015	621	52.8	44.7	1.7	0.8	52.8	55.1	50.9
Italy	2011	596	46.4	47.6	3.9	2.1	46.4	43.4	49.8
	2015	607	45.3	50.2	2.5	2.0	45.3	45.0	45.6
Japan	2011	627	60.2	38.5	0.6	0.8	60.2	60.6	59.7
	2015	622	59.5	39.2	1.0	0.3	59.5	57.7	61.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_10 (M051236): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: In what square is the treasure

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	31.4	56.5	8.5	3.5	31.4	30.6	32.1
	2015	664	39.3	57.0	2.6	1.1	39.3	37.2	41.1
Korea, Rep. of	2011	619	77.4	22.5	0.1	0.0	77.4	76.9	78.0
	2015	674	71.9	27.2	0.4	0.5	71.9	73.1	70.9
Kuwait	2011	585	8.2	76.0	12.0	3.8	8.2	8.0	8.4
	2015	507	4.6	71.8	19.3	4.3	4.6	4.0	5.2
Lithuania	2011	669	61.7	34.8	2.3	1.2	61.7	61.1	62.2
	2015	553	61.3	36.9	1.3	0.5	61.3	60.0	62.5
Morocco	2011	1130	3.7	67.9	23.3	5.1	3.7	4.4	2.9
	2015	728	7.5	79.9	8.5	4.1	7.5	8.9	6.2
Netherlands	2011	460	70.0	27.9	1.4	0.6	70.0	74.4	65.9
	2015	641	62.8	34.0	1.4	1.8	62.8	62.8	62.9
New Zealand	2011	815	57.2	39.9	1.7	1.2	57.2	54.9	59.5
	2015	896	53.5	41.6	3.9	1.0	53.5	53.7	53.3
Northern Ireland	2011	502	71.3	27.6	0.4	0.7	71.3	73.2	69.6
	2015	446	72.5	26.7	0.6	0.2	72.5	69.2	75.7
Oman	2011	1490	10.4	79.2	6.7	3.6	10.4	11.7	9.3
	2015	1307	22.3	70.7	5.9	1.1	22.3	22.2	22.4
Portugal	2011	580	45.5	50.5	3.2	0.8	45.5	44.6	46.3
	2015	669	53.9	42.0	1.9	2.1	53.9	51.2	57.0
Qatar	2011	595	22.0	68.8	7.4	1.8	22.0	24.8	19.7
	2015	739	25.6	65.6	6.3	2.5	25.6	23.2	28.1
Russian Federation	2011	644	56.0	40.2	1.9	1.9	56.0	54.5	57.5
	2015	710	57.7	40.6	0.8	0.9	57.7	55.3	59.8
Saudi Arabia	2011	658	15.7	76.3	6.9	1.1	15.7	14.4	17.1
	2015	602	10.5	72.6	13.8	3.0	10.5	12.3	8.9
Serbia	2011	624	43.2	48.5	5.7	2.7	43.2	41.5	44.6
	2015	566	50.5	41.0	6.9	1.6	50.5	50.4	50.6
Singapore	2011	915	66.4	33.3	0.2	0.0	66.4	64.4	68.2
	2015	930	64.2	35.4	0.4	0.0	64.2	65.9	62.7
Slovak Republic	2011	809	58.2	38.6	2.3	0.9	58.2	57.3	59.0
	2015	837	52.8	42.0	3.4	1.8	52.8	55.1	50.6
Slovenia	2011	645	68.1	29.5	1.7	0.8	68.1	75.3	61.4
	2015	636	65.4	30.6	2.1	1.9	65.4	66.9	63.9
Spain	2011	613	49.6	42.9	4.2	3.2	49.6	45.6	53.2
	2015	1103	52.8	40.4	3.4	3.4	52.8	51.6	54.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_10 (M051236): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: In what square is the treasure

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	54.1	39.5	2.6	3.7	54.1	51.8	56.5
	2015	587	59.1	36.1	2.0	2.8	59.1	64.5	53.7
Turkey	2011	1066	20.7	72.7	5.8	0.8	20.7	20.4	21.0
	2015	919	29.7	63.6	5.7	1.0	29.7	25.5	34.1
United Arab Emirates	2011	2087	26.5	66.7	5.3	1.5	26.5	27.7	25.5
	2015	3031	30.7	61.8	6.3	1.2	30.7	31.4	30.1
United States	2011	1759	59.4	37.0	1.4	2.3	59.4	59.5	59.2
	2015	1421	49.7	45.8	1.8	2.7	49.7	49.6	49.7
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International Avg (n=40)	2011	30377	48.1	45.9	4.2	1.8	48.1	47.7	48.5
	2015	30545	48.6	45.6	3.8	2.0	48.6	48.7	48.6
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Ontario, Canada	2011	645	55.5	40.3	1.9	2.3	55.5	53.0	57.9
	2015	658	56.1	38.0	2.8	3.1	56.1	55.4	56.8
Quebec, Canada	2011	616	46.8	48.6	3.8	0.8	46.8	43.1	50.7
	2015	399	54.5	39.5	3.1	2.9	54.5	49.1	59.5
Norway (4)	2011	434	56.5	34.7	4.4	4.4	56.5	61.4	50.9
	2015	600	58.6	31.6	6.5	3.3	58.6	60.7	56.4
Abu Dhabi, UAE	2011	591	22.8	70.8	5.2	1.2	22.8	24.3	21.3
	2015	716	22.8	69.8	5.9	1.4	22.8	23.1	22.6
Dubai, UAE	2011	867	39.2	53.8	5.8	1.2	39.2	40.9	37.7
	2015	1068	48.8	46.4	4.2	0.6	48.8	50.9	46.7
Florida, US	2011	375	57.5	39.4	1.3	1.8	57.5	56.5	58.5
	2015	289	51.2	44.6	2.3	1.9	51.2	49.3	53.3
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_11A (M051125A): Data Display / Knowing Type: CR 1 Point  
Label: People visiting the website on Thu

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	89.5	7.3	1.3	1.9	89.5	91.4	87.8
	2015	868	90.2	7.8	1.0	0.9	90.2	93.3	87.2
Bahrain	2011	575	80.3	14.4	2.7	2.7	80.3	83.2	77.4
	2015	587	83.8	10.1	3.4	2.7	83.8	86.3	81.2
Belgium (Flemish)	2011	682	93.7	4.9	0.4	1.0	93.7	93.7	93.7
	2015	759	93.2	5.4	0.3	1.1	93.2	94.0	92.4
Chile	2011	791	79.3	11.1	4.7	4.9	79.3	81.0	77.4
	2015	682	77.9	10.7	5.6	5.8	77.9	77.6	78.2
Chinese Taipei	2011	603	94.0	4.9	1.1	0.0	94.0	96.0	92.3
	2015	616	96.1	3.2	0.6	0.1	96.1	95.7	96.5
Croatia	2011	649	85.3	7.9	4.7	2.1	85.3	84.7	85.9
	2015	560	91.0	6.6	2.2	0.2	91.0	89.5	92.5
Czech Republic	2011	647	84.3	9.0	5.6	1.1	84.3	82.2	86.1
	2015	742	87.6	7.8	2.6	1.9	87.6	87.6	87.6
Denmark	2011	575	87.8	4.6	2.3	5.3	87.8	87.8	87.7
	2015	525	86.7	3.5	1.9	7.9	86.7	87.6	86.0
England	2011	495	94.7	3.1	1.4	0.8	94.7	96.5	92.8
	2015	577	95.7	2.3	1.3	0.7	95.7	95.6	95.8
Finland	2011	661	94.7	2.7	1.9	0.8	94.7	95.4	94.1
	2015	722	90.5	4.6	1.4	3.5	90.5	93.5	87.7
Georgia	2011	678	52.3	30.2	11.6	5.9	52.3	56.6	48.7
	2015	555	58.3	27.3	8.0	6.4	58.3	63.2	53.6
Germany	2011	566	94.2	3.8	0.9	1.1	94.2	94.4	94.1
	2015	562	92.5	3.6	2.2	1.7	92.5	95.0	90.3
Hong Kong SAR	2011	556	94.1	5.2	0.7	0.0	94.1	97.9	91.0
	2015	516	95.9	3.8	0.1	0.2	95.9	96.5	95.4
Hungary	2011	746	78.3	15.5	2.0	4.2	78.3	78.8	77.8
	2015	717	85.9	9.8	1.9	2.5	85.9	88.5	83.3
Iran, Islamic Rep. of	2011	824	50.1	35.1	10.5	4.2	50.1	51.1	49.1
	2015	541	57.0	25.1	8.4	9.5	57.0	61.0	52.2
Ireland	2011	652	92.7	5.7	1.0	0.6	92.7	95.2	90.3
	2015	621	93.7	4.2	1.0	1.1	93.7	94.0	93.5
Italy	2011	596	74.6	17.9	4.0	3.4	74.6	72.7	76.8
	2015	608	81.4	13.2	2.9	2.5	81.4	79.6	83.0
Japan	2011	627	95.6	2.9	0.4	1.1	95.6	96.7	94.6
	2015	622	95.6	3.6	0.5	0.3	95.6	95.7	95.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_11A (M051125A): Data Display / Knowing Type: CR 1 Point  
Label: People visiting the website on Thu

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	62.3	22.6	9.9	5.2	62.3	62.6	62.1
	2015	664	78.6	17.2	3.1	1.1	78.6	79.3	77.9
Korea, Rep. of	2011	619	98.8	0.9	0.3	0.0	98.8	99.8	97.9
	2015	674	97.8	1.5	0.2	0.5	97.8	98.6	97.1
Kuwait	2011	586	57.8	30.4	7.4	4.4	57.8	66.6	47.2
	2015	508	53.6	30.0	9.9	6.5	53.6	62.0	44.8
Lithuania	2011	669	81.5	14.3	2.9	1.4	81.5	80.3	82.5
	2015	638	87.8	8.6	3.1	0.5	87.8	88.7	86.9
Morocco	2011	1129	29.8	40.0	21.8	8.3	29.8	32.4	27.1
	2015	727	47.0	33.4	14.1	5.5	47.0	53.2	41.5
Netherlands	2011	460	93.8	3.9	1.5	0.8	93.8	93.0	95.2
	2015	641	93.1	3.4	1.6	2.0	93.1	93.8	92.4
New Zealand	2011	815	86.3	10.0	2.3	1.3	86.3	88.6	84.2
	2015	896	86.7	9.5	2.5	1.4	86.7	85.9	87.3
Northern Ireland	2011	502	94.7	3.2	1.4	0.7	94.7	95.0	94.5
	2015	446	92.4	6.9	0.5	0.2	92.4	95.0	89.9
Oman	2011	1490	61.5	29.2	5.5	3.9	61.5	70.8	53.3
	2015	1307	68.9	26.0	3.6	1.5	68.9	72.7	65.2
Portugal	2011	580	91.1	6.3	0.7	2.0	91.1	89.2	92.9
	2015	669	91.5	4.9	1.0	2.6	91.5	90.2	93.0
Qatar	2011	595	71.1	22.2	4.2	2.5	71.1	74.4	68.3
	2015	739	77.5	15.3	4.1	3.1	77.5	78.9	76.1
Russian Federation	2011	644	86.0	9.8	1.8	2.3	86.0	87.4	84.7
	2015	710	91.2	6.3	1.4	1.0	91.2	91.6	90.9
Saudi Arabia	2011	658	73.2	18.5	6.8	1.5	73.2	81.5	64.7
	2015	602	65.0	23.1	6.9	5.1	65.0	79.2	52.0
Serbia	2011	624	83.5	8.8	4.4	3.3	83.5	79.7	86.5
	2015	566	85.8	7.7	4.5	2.0	85.8	86.5	85.3
Singapore	2011	915	93.5	5.9	0.6	0.0	93.5	96.9	90.4
	2015	930	93.3	6.2	0.3	0.2	93.3	93.3	93.4
Slovak Republic	2011	809	83.2	12.1	2.9	1.8	83.2	83.3	83.0
	2015	837	80.8	11.0	5.8	2.4	80.8	80.8	80.8
Slovenia	2011	645	84.9	11.2	2.7	1.2	84.9	85.3	84.5
	2015	636	85.3	10.3	1.8	2.6	85.3	87.4	83.0
Spain	2011	613	85.2	7.0	3.5	4.3	85.2	87.9	82.8
	2015	1103	86.5	7.1	2.1	4.2	86.5	88.5	84.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M06\_11A (M051125A): Data Display / Knowing Type: CR 1 Point  
Label: People visiting the website on Thu

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	91.3	2.2	2.3	4.3	91.3	93.7	88.8
	2015	588	89.4	4.3	2.6	3.7	89.4	92.5	86.2
Turkey	2011	1066	77.9	15.6	5.4	1.1	77.9	79.2	76.7
	2015	919	79.3	14.8	4.5	1.5	79.3	81.6	76.9
United Arab Emirates	2011	2087	77.0	17.8	3.1	2.2	77.0	81.8	72.4
	2015	3031	79.1	15.1	3.7	2.0	79.1	83.7	75.0
United States	2011	1759	89.8	5.5	2.0	2.7	89.8	90.8	88.8
	2015	1421	89.6	4.1	3.4	3.0	89.6	89.6	89.7
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International Avg (n=40)	2011	30378	81.7	12.1	3.8	2.4	81.7	83.4	80.2
	2015	30632	83.8	10.5	3.2	2.5	83.8	85.7	82.0
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Ontario, Canada	2011	645	91.1	5.3	1.0	2.6	91.1	91.0	91.2
	2015	658	88.3	5.6	2.4	3.6	88.3	87.5	89.0
Quebec, Canada	2011	616	91.0	5.0	2.7	1.3	91.0	91.6	90.4
	2015	399	91.6	3.1	1.5	3.8	91.6	92.1	91.1
Norway (4)	2011	434	84.8	6.3	2.2	6.7	84.8	88.1	81.1
	2015	600	83.5	5.8	5.6	5.1	83.5	87.0	80.0
Abu Dhabi, UAE	2011	591	75.5	19.2	3.0	2.3	75.5	80.8	70.5
	2015	716	73.6	19.5	4.6	2.3	73.6	81.3	67.4
Dubai, UAE	2011	867	83.4	12.9	2.0	1.7	83.4	86.2	81.1
	2015	1068	89.7	6.7	2.2	1.4	89.7	92.8	86.7
Florida, US	2011	375	90.5	4.5	2.2	2.8	90.5	93.3	87.7
	2015	289	86.2	6.6	4.5	2.7	86.2	85.7	86.8
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M06\_11B (M051125B): Data Display / Applying Type: MC Key: D  
Label: How many more on Fri than Tue

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	887	58.7	8.3	14.9	13.9	58.7	1.7	2.5	54.4	62.4
	2015	868	58.8	7.4	13.6	15.2	58.8	3.9	1.0	55.9	61.6
Bahrain	2011	575	52.0	13.2	11.6	16.6	52.0	2.9	3.7	50.1	53.8
	2015	587	71.0	8.4	8.0	8.7	71.0	0.7	3.3	70.6	71.4
Belgium (Flemish)	2011	682	64.7	10.2	13.8	9.1	64.7	1.0	1.1	63.4	66.0
	2015	759	69.6	8.9	11.4	8.2	69.6	0.8	1.2	67.5	71.7
Chile	2011	791	59.2	10.4	11.2	11.2	59.2	2.1	5.9	61.4	56.9
	2015	682	53.3	12.7	10.2	14.9	53.3	1.0	7.8	55.4	51.2
Chinese Taipei	2011	603	83.4	4.5	7.4	4.2	83.4	0.3	0.2	81.2	85.3
	2015	616	83.0	3.7	7.2	5.2	83.0	0.5	0.4	81.1	84.8
Croatia	2011	649	57.1	11.4	14.5	10.2	57.1	2.2	4.7	56.4	57.7
	2015	560	63.6	7.8	14.7	10.6	63.6	1.9	1.5	58.6	68.8
Czech Republic	2011	647	58.6	12.3	14.0	9.5	58.6	2.8	2.8	57.2	59.8
	2015	742	59.2	10.7	16.8	9.3	59.2	0.9	3.2	60.0	58.3
Denmark	2011	575	62.1	6.4	11.9	10.3	62.1	3.5	5.9	57.9	66.7
	2015	525	64.2	8.8	6.4	8.7	64.2	2.7	9.2	64.7	63.7
England	2011	495	61.0	7.5	14.2	15.3	61.0	1.0	1.0	62.4	59.7
	2015	577	69.2	6.4	9.1	13.3	69.2	0.7	1.3	70.1	68.2
Finland	2011	661	55.3	4.1	23.6	13.3	55.3	2.5	1.2	49.6	60.0
	2015	722	52.5	6.4	23.0	12.7	52.5	1.3	4.1	54.1	50.9
Georgia	2011	678	48.0	11.8	14.8	12.4	48.0	5.7	7.4	47.8	48.2
	2015	555	56.8	10.4	11.9	10.4	56.8	2.5	7.9	57.3	56.3
Germany	2011	566	67.8	5.4	12.1	11.5	67.8	1.7	1.5	67.8	67.8
	2015	562	68.0	5.5	13.5	6.9	68.0	3.2	2.9	66.5	69.4
Hong Kong SAR	2011	556	85.9	1.8	6.2	5.0	85.9	0.8	0.2	85.9	85.9
	2015	516	84.5	1.0	5.3	8.9	84.5	0.1	0.2	79.9	88.5
Hungary	2011	746	55.9	14.7	14.7	7.8	55.9	1.1	5.8	52.6	59.2
	2015	717	58.3	16.7	10.6	9.5	58.3	1.3	3.6	54.1	62.4
Iran, Islamic Rep. of	2011	824	37.2	17.8	20.6	14.2	37.2	3.7	6.5	34.8	39.6
	2015	541	31.1	17.7	23.9	13.4	31.1	3.5	10.4	28.6	34.0
Ireland	2011	652	62.1	8.1	12.3	15.0	62.1	1.8	0.7	62.2	62.1
	2015	621	63.9	4.7	14.3	14.8	63.9	1.0	1.2	62.1	65.3
Italy	2011	596	40.7	23.8	15.5	12.3	40.7	3.2	4.5	38.9	42.7
	2015	608	42.0	24.7	15.7	11.1	42.0	2.1	4.4	34.8	48.4
Japan	2011	627	62.8	5.8	22.1	7.8	62.8	0.1	1.3	63.1	62.5
	2015	622	63.6	4.5	19.8	11.3	63.6	0.5	0.3	59.6	67.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_11B (M051125B): Data Display / Applying Type: MC Key: D  
Label: How many more on Fri than Tue

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	627	52.8	16.8	14.1	6.5	52.8	3.9	5.9	55.7	50.1
	2015	664	68.8	13.3	9.0	6.8	68.8	0.9	1.2	70.4	67.3
Korea, Rep. of	2011	619	74.9	5.5	12.4	6.9	74.9	0.0	0.3	77.9	72.1
	2015	674	76.8	6.7	7.5	8.6	76.8	0.0	0.5	74.4	79.0
Kuwait	2011	579	37.0	25.9	13.4	13.9	37.0	5.0	4.8	35.1	39.3
	2015	508	37.2	23.2	15.4	12.6	37.2	4.7	6.9	39.9	34.4
Lithuania	2011	669	71.4	6.1	7.2	12.2	71.4	1.4	1.7	74.1	68.9
	2015	638	71.8	9.2	8.7	7.7	71.8	1.0	1.7	70.2	73.4
Morocco	2011	931	40.6	15.0	21.9	18.5	40.6	3.1	0.9	41.2	40.0
	2015	724	42.1	14.5	16.1	15.0	42.1	3.8	8.4	40.6	43.3
Netherlands	2011	460	58.5	7.2	21.6	10.8	58.5	0.7	1.3	56.1	61.3
	2015	641	66.9	5.2	15.1	9.4	66.9	0.6	2.8	65.0	68.8
New Zealand	2011	815	51.5	12.0	19.0	13.8	51.5	1.5	2.1	51.6	51.3
	2015	896	56.6	12.2	15.5	11.0	56.6	2.5	2.2	53.2	59.6
Northern Ireland	2011	502	70.0	2.8	10.5	15.0	70.0	0.7	1.0	67.0	72.6
	2015	439	75.2	5.5	8.4	10.5	75.2	0.4	0.0	74.9	75.5
Oman	2011	1490	36.8	22.2	15.1	17.5	36.8	3.1	5.3	35.5	38.0
	2015	1302	46.7	19.4	14.0	15.3	46.7	2.5	2.1	50.0	43.5
Portugal	2011	580	66.5	11.3	9.7	9.0	66.5	1.3	2.2	65.0	68.0
	2015	669	65.6	9.9	11.8	8.7	65.6	0.7	3.3	63.9	67.5
Qatar	2011	595	47.6	15.7	15.0	15.6	47.6	2.8	3.3	46.9	48.2
	2015	739	49.2	17.9	11.8	15.2	49.2	2.0	3.9	44.3	54.5
Russian Federation	2011	644	67.9	9.4	11.7	7.5	67.9	1.0	2.5	69.1	66.9
	2015	710	73.9	8.2	9.6	6.4	73.9	0.3	1.5	76.7	71.4
Saudi Arabia	2011	655	40.4	25.6	13.4	16.1	40.4	1.4	3.0	39.6	41.2
	2015	601	44.1	18.6	14.8	13.2	44.1	3.8	5.5	45.0	43.3
Serbia	2011	624	57.7	15.2	11.5	7.5	57.7	2.7	5.5	56.2	58.9
	2015	566	63.6	10.0	13.9	6.1	63.6	3.5	2.9	58.8	67.6
Singapore	2011	915	85.3	1.5	2.4	10.2	85.3	0.2	0.3	89.6	81.4
	2015	930	84.8	1.0	2.6	11.3	84.8	0.2	0.2	87.1	82.7
Slovak Republic	2011	809	58.9	11.2	15.4	10.4	58.9	1.7	2.5	58.6	59.1
	2015	837	55.2	15.2	13.3	10.2	55.2	1.6	4.4	54.8	55.6
Slovenia	2011	644	62.6	7.2	15.5	11.3	62.6	1.0	2.5	61.9	63.1
	2015	636	59.5	8.0	17.1	11.3	59.5	0.7	3.4	57.0	62.1
Spain	2011	613	57.1	11.5	13.1	10.5	57.1	2.3	5.4	55.2	58.8
	2015	1103	63.3	9.1	9.3	10.4	63.3	2.6	5.3	65.6	61.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M06\_11B (M051125B): Data Display / Applying Type: MC Key: D  
Label: How many more on Fri than Tue

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	58.4	6.6	16.6	10.2	58.4	2.5	5.7	55.7	61.1
	2015	588	63.2	7.4	12.7	9.7	63.2	1.6	5.5	67.2	59.7
Turkey	2011	1066	67.2	8.5	13.6	7.4	67.2	1.5	1.8	66.6	67.8
	2015	919	68.2	8.1	11.4	10.1	68.2	0.5	1.7	70.4	65.9
United Arab Emirates	2011	2087	50.8	15.8	14.5	13.9	50.8	2.4	2.6	51.4	50.3
	2015	3031	56.7	13.1	12.1	14.0	56.7	1.9	2.2	54.0	59.2
United States	2011	1759	66.6	5.0	7.2	16.5	66.6	1.5	3.2	64.7	68.7
	2015	1421	67.3	5.6	7.2	13.7	67.3	1.8	4.3	66.3	68.4
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International Avg (n=40)	2011	30169	58.8	10.9	13.8	11.5	58.8	2.0	3.0	58.0	59.6
	2015	30616	61.7	10.2	12.3	10.8	61.7	1.7	3.3	60.8	62.7
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Ontario, Canada	2011	645	62.0	9.5	14.2	10.0	62.0	0.7	3.6	59.5	64.4
	2015	657	55.3	8.1	12.6	17.3	55.3	1.8	4.8	50.6	59.7
Quebec, Canada	2011	616	63.5	8.7	13.2	10.7	63.5	1.1	2.7	61.3	65.9
	2015	399	63.6	10.4	12.1	8.9	63.6	0.7	4.3	61.3	65.8
Norway (4)	2011	434	49.8	8.1	20.0	13.0	49.8	1.1	8.0	48.4	51.3
	2015	600	49.9	8.5	19.4	13.2	49.9	2.8	6.2	51.7	48.1
Abu Dhabi, UAE	2011	591	45.8	19.8	15.2	14.3	45.8	2.2	2.7	45.6	46.1
	2015	716	53.8	15.7	11.2	14.7	53.8	1.8	2.6	49.1	57.6
Dubai, UAE	2011	867	54.5	12.8	15.4	13.1	54.5	2.2	1.9	53.0	55.7
	2015	1068	63.2	9.5	11.7	12.9	63.2	1.1	1.6	61.6	64.8
Florida, US	2011	375	67.9	5.6	5.5	16.6	67.9	1.1	3.3	66.9	68.9
	2015	289	68.5	4.8	8.0	12.3	68.5	2.3	4.2	67.6	69.5
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_01 (M041298): Number / Knowing      Type: MC      Key: D  
Label: Which rectangle is 1/4 shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	82.9	7.3	3.5	4.1	82.9	1.8	0.2	84.7	81.4
	2015	870	88.0	6.5	1.8	2.9	88.0	0.7	0.1	89.1	87.0
Bahrain	2011	572	70.0	11.5	1.6	13.8	70.0	2.3	0.8	75.5	64.4
	2015	594	77.7	8.4	0.7	12.2	77.7	0.9	0.1	81.1	74.2
Belgium (Flemish)	2011	681	90.4	2.1	0.1	4.4	90.4	2.9	0.0	90.7	90.1
	2015	766	88.1	3.4	1.1	4.5	88.1	2.7	0.2	91.4	84.7
Chile	2011	792	80.8	8.3	1.1	8.0	80.8	1.0	0.7	86.0	75.1
	2015	681	85.4	5.3	0.6	6.5	85.4	0.5	1.6	89.4	81.4
Chinese Taipei	2011	608	94.0	2.7	0.0	1.1	94.0	2.2	0.0	94.5	93.6
	2015	616	94.5	2.6	0.0	1.4	94.5	1.4	0.0	96.5	92.6
Croatia	2011	649	36.2	15.4	10.7	27.2	36.2	10.5	0.0	34.4	38.0
	2015	563	45.7	13.0	10.7	23.4	45.7	7.2	0.0	46.6	44.6
Czech Republic	2011	646	55.8	13.1	5.2	17.4	55.8	8.5	0.0	59.4	52.7
	2015	746	75.2	7.6	1.4	12.6	75.2	3.3	0.0	73.5	77.1
Denmark	2011	561	78.9	6.8	1.8	8.9	78.9	3.2	0.6	80.6	76.8
	2015	525	81.5	4.8	1.2	8.8	81.5	3.3	0.4	80.9	82.0
England	2011	496	79.3	4.8	3.2	10.3	79.3	2.4	0.0	79.7	79.0
	2015	574	82.7	3.8	1.5	10.0	82.7	2.0	0.0	84.9	80.5
Finland	2011	668	91.7	1.6	0.6	4.2	91.7	1.7	0.1	90.4	92.9
	2015	718	88.0	3.3	0.7	4.7	88.0	3.4	0.0	90.4	85.8
Georgia	2011	683	52.6	9.2	7.0	26.8	52.6	4.3	0.0	56.0	49.3
	2015	561	53.3	12.8	8.3	20.3	53.3	5.0	0.2	53.4	53.3
Germany	2011	567	47.4	11.2	12.1	24.3	47.4	4.9	0.2	38.8	55.2
	2015	568	44.8	8.0	12.6	27.2	44.8	7.3	0.2	43.1	46.3
Hong Kong SAR	2011	562	95.9	3.2	0.2	0.4	95.9	0.3	0.0	97.0	95.0
	2015	514	97.6	2.0	0.0	0.0	97.6	0.4	0.0	97.7	97.5
Hungary	2011	750	76.7	8.0	2.5	7.7	76.7	4.8	0.3	79.7	73.4
	2015	713	74.3	4.2	2.9	10.9	74.3	7.6	0.1	78.9	69.8
Iran, Islamic Rep. of	2011	818	73.5	3.6	5.2	11.0	73.5	6.2	0.4	77.0	70.1
	2015	547	70.1	6.0	4.5	14.4	70.1	4.5	0.4	73.2	66.8
Ireland	2011	663	84.3	4.3	3.0	7.4	84.3	1.0	0.0	84.0	84.6
	2015	622	84.2	5.8	3.1	5.0	84.2	1.9	0.0	86.5	82.3
Italy	2011	599	78.4	8.7	1.0	8.7	78.4	3.2	0.1	77.5	79.3
	2015	613	85.5	6.2	1.1	6.5	85.5	0.7	0.0	85.2	85.7
Japan	2011	624	94.6	0.6	0.0	0.9	94.6	3.9	0.0	94.5	94.6
	2015	621	92.7	2.4	0.3	0.4	92.7	4.3	0.0	94.5	91.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_01 (M041298): Number / Knowing      Type: MC      Key: D  
Label: Which rectangle is 1/4 shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	56.5	12.2	4.6	25.9	56.5	0.5	0.3	51.6	61.0
	2015	667	73.9	7.4	3.1	15.2	73.9	0.4	0.0	75.5	72.4
Korea, Rep. of	2011	613	96.3	2.9	0.0	0.6	96.3	0.2	0.0	97.3	95.3
	2015	667	95.7	2.6	0.1	1.5	95.7	0.2	0.0	96.7	94.7
Kuwait	2011	588	48.1	15.9	4.7	18.6	48.1	12.1	0.7	55.1	39.3
	2015	505	53.3	12.2	2.9	17.5	53.3	12.7	1.5	56.8	49.5
Lithuania	2011	657	81.4	4.5	2.3	7.3	81.4	4.5	0.0	83.1	80.0
	2015	655	86.3	4.9	0.4	5.8	86.3	2.7	0.0	88.1	84.4
Morocco	2011	1052	22.7	31.8	13.0	20.3	22.7	11.4	0.7	23.7	21.6
	2015	721	32.3	24.7	15.0	24.1	32.3	3.7	0.2	36.1	28.6
Netherlands	2011	459	91.4	1.9	0.9	4.6	91.4	1.1	0.0	91.4	92.0
	2015	639	83.7	3.6	1.5	9.3	83.7	1.7	0.2	84.0	83.3
New Zealand	2011	800	77.7	8.7	2.6	8.8	77.7	2.2	0.0	81.0	74.1
	2015	913	83.0	6.9	3.0	6.0	83.0	0.7	0.4	82.7	83.3
Northern Ireland	2011	499	83.5	7.2	0.9	7.5	83.5	0.8	0.0	82.6	84.3
	2015	438	88.8	2.9	1.7	5.1	88.8	1.5	0.0	88.0	89.6
Oman	2011	1483	67.2	10.7	3.3	13.9	67.2	4.6	0.3	75.4	60.2
	2015	1302	68.7	11.0	3.7	14.7	68.7	1.7	0.2	73.2	64.3
Portugal	2011	592	66.6	12.0	3.3	15.8	66.6	2.1	0.1	67.3	66.1
	2015	674	86.5	4.0	0.5	6.4	86.5	2.6	0.0	87.1	85.7
Qatar	2011	585	69.6	8.3	2.6	14.1	69.6	5.3	0.2	71.9	67.2
	2015	741	72.6	13.2	1.2	7.8	72.6	4.6	0.5	74.9	70.4
Russian Federation	2011	645	77.3	5.5	4.0	12.7	77.3	0.6	0.0	76.7	77.8
	2015	702	77.9	6.2	1.0	12.7	77.9	2.2	0.0	78.1	77.7
Saudi Arabia	2011	661	70.4	15.0	1.6	11.9	70.4	1.2	0.0	74.7	65.8
	2015	612	58.6	14.2	2.7	18.7	58.6	5.3	0.5	67.4	49.9
Serbia	2011	631	75.6	7.1	1.7	11.2	75.6	4.4	0.0	76.5	74.9
	2015	566	76.8	5.7	0.8	12.6	76.8	4.2	0.0	76.8	76.8
Singapore	2011	915	93.2	3.3	0.7	1.9	93.2	0.9	0.0	95.4	91.0
	2015	935	96.3	2.3	0.4	0.4	96.3	0.6	0.0	96.6	96.0
Slovak Republic	2011	814	66.9	12.4	2.6	14.2	66.9	3.8	0.0	71.2	63.1
	2015	828	63.7	11.7	3.8	15.5	63.7	5.2	0.1	62.0	65.4
Slovenia	2011	644	86.5	4.7	1.5	6.2	86.5	1.0	0.1	87.3	85.6
	2015	645	89.1	2.7	0.8	4.9	89.1	2.5	0.0	88.4	89.8
Spain	2011	602	66.3	6.8	2.7	15.5	66.3	8.6	0.1	70.8	62.0
	2015	1091	79.7	6.0	1.3	9.9	79.7	3.0	0.1	81.1	78.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_01 (M041298): Number / Knowing      Type: MC      Key: D  
Label: Which rectangle is 1/4 shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	65.7	15.1	3.1	11.6	65.7	4.2	0.3	68.9	62.8
	2015	575	74.0	8.0	2.8	7.4	74.0	7.7	0.2	78.2	69.8
Turkey	2011	1069	82.4	7.6	1.8	6.5	82.4	1.5	0.2	83.1	81.8
	2015	924	85.3	6.7	1.6	6.2	85.3	0.2	0.0	87.4	83.3
United Arab Emirates	2011	2091	71.6	11.0	1.6	12.2	71.6	3.5	0.1	74.9	68.4
	2015	3032	72.5	10.6	2.7	10.1	72.5	3.9	0.1	77.8	68.0
United States	2011	1776	91.3	5.0	0.3	2.6	91.3	0.6	0.1	91.7	90.9
	2015	1430	93.7	3.4	0.2	1.6	93.7	1.0	0.2	95.3	92.0
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International Avg (n=40)	2011	30254	74.3	8.3	3.0	10.8	74.3	3.5	0.2	75.8	72.8
	2015	30674	77.5	6.9	2.6	9.6	77.5	3.1	0.2	79.2	75.9
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Ontario, Canada	2011	654	82.2	8.2	2.8	6.2	82.2	0.6	0.0	83.0	81.4
	2015	661	82.1	6.6	2.7	7.2	82.1	1.0	0.4	85.7	78.6
Quebec, Canada	2011	609	83.5	5.1	0.4	6.7	83.5	4.3	0.0	85.2	81.9
	2015	394	96.0	2.1	0.0	1.5	96.0	0.3	0.1	96.7	95.2
Norway (4)	2011	438	68.1	11.4	3.5	10.6	68.1	5.4	1.0	74.9	61.8
	2015	594	71.7	9.6	4.5	9.2	71.7	4.9	0.0	74.4	69.5
Abu Dhabi, UAE	2011	587	67.5	12.4	1.4	14.6	67.5	3.8	0.2	71.9	63.3
	2015	717	61.9	14.8	5.1	13.0	61.9	5.2	0.0	70.6	55.5
Dubai, UAE	2011	871	77.8	7.4	1.6	9.1	77.8	4.0	0.1	79.3	76.6
	2015	1063	84.5	6.3	0.7	6.6	84.5	1.8	0.2	87.1	81.9
Florida, US	2011	370	92.9	3.3	0.3	2.3	92.9	1.2	0.0	94.3	91.6
	2015	282	95.5	2.0	0.3	1.6	95.5	0.7	0.0	96.5	94.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_02 (M041007): Number / Knowing      Type: MC      Key: D  
Label: Which could be Pat's number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	44.7	14.6	17.3	21.7	44.7	1.5	0.2	45.8	43.6
	2015	870	49.9	11.5	12.6	24.6	49.9	1.3	0.1	44.4	54.7
Bahrain	2011	572	39.5	13.7	25.3	18.9	39.5	1.8	0.8	36.8	42.2
	2015	594	47.4	13.7	19.9	16.6	47.4	2.3	0.1	50.9	44.0
Belgium (Flemish)	2011	681	55.7	7.7	11.9	22.9	55.7	1.8	0.0	54.4	57.1
	2015	766	53.0	10.3	9.5	22.7	53.0	4.3	0.2	54.7	51.3
Chile	2011	792	42.9	10.9	17.4	26.2	42.9	1.9	0.8	43.6	42.1
	2015	681	42.5	10.0	15.5	28.2	42.5	2.3	1.6	41.4	43.5
Chinese Taipei	2011	608	79.2	4.6	5.2	10.6	79.2	0.5	0.0	80.2	78.4
	2015	616	78.0	6.0	6.6	8.7	78.0	0.6	0.0	77.1	79.0
Croatia	2011	649	59.5	6.6	11.6	18.9	59.5	3.4	0.0	60.0	59.0
	2015	563	60.9	7.0	14.2	14.8	60.9	3.1	0.0	58.9	63.1
Czech Republic	2011	646	53.8	9.1	9.4	22.0	53.8	5.7	0.0	56.1	51.9
	2015	746	55.3	8.1	8.6	24.0	55.3	4.0	0.0	57.6	52.7
Denmark	2011	561	49.6	10.8	11.7	20.1	49.6	7.2	0.6	46.7	52.9
	2015	525	53.6	10.5	11.7	16.6	53.6	7.3	0.4	55.0	52.4
England	2011	496	49.2	11.0	13.6	22.9	49.2	3.3	0.0	51.0	47.4
	2015	574	56.2	12.0	9.4	19.8	56.2	2.6	0.0	53.8	58.4
Finland	2011	668	63.2	6.5	6.8	19.4	63.2	3.9	0.1	60.9	65.4
	2015	718	58.3	7.9	10.9	18.4	58.3	4.5	0.0	63.2	53.6
Georgia	2011	683	46.3	12.4	18.4	17.1	46.3	5.9	0.1	48.6	44.1
	2015	561	48.5	11.6	18.6	17.6	48.5	3.4	0.2	49.3	47.7
Germany	2011	567	55.0	7.5	10.8	21.5	55.0	5.0	0.2	49.9	59.7
	2015	568	55.2	7.9	12.6	21.2	55.2	3.0	0.2	56.9	53.6
Hong Kong SAR	2011	562	73.5	4.4	7.0	14.5	73.5	0.6	0.0	74.5	72.7
	2015	514	77.5	5.8	6.8	9.8	77.5	0.1	0.0	74.7	79.8
Hungary	2011	750	61.2	11.3	9.5	15.2	61.2	2.5	0.4	62.9	59.2
	2015	713	65.8	11.0	8.3	11.7	65.8	2.9	0.1	67.4	64.4
Iran, Islamic Rep. of	2011	818	33.6	15.0	23.6	23.3	33.6	4.0	0.4	34.1	33.2
	2015	547	31.6	18.3	21.6	22.1	31.6	6.0	0.4	30.6	32.7
Ireland	2011	663	37.0	15.5	14.8	27.5	37.0	5.2	0.0	39.6	34.5
	2015	622	39.3	17.3	14.1	26.0	39.3	3.2	0.0	37.8	40.6
Italy	2011	599	44.8	7.1	16.0	27.6	44.8	4.4	0.1	44.9	44.6
	2015	613	44.1	10.5	16.1	27.0	44.1	2.3	0.0	42.4	45.5
Japan	2011	624	79.1	7.1	5.1	8.3	79.1	0.4	0.0	76.9	80.9
	2015	621	75.2	7.1	5.5	11.2	75.2	1.0	0.0	75.1	75.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M07\_02 (M041007): Number / Knowing      Type: MC      Key: D  
Label: Which could be Pat's number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	43.7	6.3	16.9	30.7	43.7	2.2	0.3	42.9	44.5
	2015	667	57.7	7.0	11.6	22.6	57.7	1.0	0.0	54.4	60.7
Korea, Rep. of	2011	613	73.3	8.6	10.9	6.9	73.3	0.3	0.0	74.4	72.2
	2015	667	74.9	8.8	8.1	8.1	74.9	0.2	0.0	72.4	77.3
Kuwait	2011	584	19.3	20.7	30.1	18.4	19.3	10.8	0.8	20.1	18.3
	2015	505	21.7	20.0	26.2	17.4	21.7	12.9	1.8	22.4	20.9
Lithuania	2011	657	44.8	7.9	13.3	31.4	44.8	2.6	0.0	43.6	45.7
	2015	655	45.4	10.0	10.4	31.3	45.4	2.9	0.0	45.3	45.5
Morocco	2011	1075	23.6	16.5	29.4	21.7	23.6	7.7	1.0	24.6	22.5
	2015	721	31.4	16.4	29.4	18.4	31.4	4.2	0.2	35.1	27.7
Netherlands	2011	459	55.4	9.3	13.7	19.9	55.4	1.7	0.0	58.5	50.9
	2015	639	56.1	7.2	16.0	19.0	56.1	1.3	0.2	54.2	57.9
New Zealand	2011	800	41.2	14.6	16.3	25.4	41.2	2.6	0.0	40.1	42.2
	2015	913	39.2	16.0	15.7	27.4	39.2	1.2	0.7	36.5	41.5
Northern Ireland	2011	499	55.1	7.7	11.5	24.4	55.1	1.3	0.0	58.1	52.6
	2015	438	58.4	12.8	6.9	21.3	58.4	0.6	0.0	57.9	59.0
Oman	2011	1484	34.0	18.1	27.6	16.3	34.0	3.6	0.4	35.9	32.4
	2015	1302	39.3	16.8	22.8	17.2	39.3	3.8	0.2	44.0	34.6
Portugal	2011	592	66.3	8.3	10.0	14.0	66.3	1.3	0.1	71.7	61.9
	2015	674	65.1	11.7	7.9	15.0	65.1	0.4	0.0	64.7	65.5
Qatar	2011	585	31.6	13.3	28.8	22.4	31.6	3.7	0.2	33.8	29.4
	2015	741	29.6	11.2	27.5	28.0	29.6	3.0	0.7	26.6	32.5
Russian Federation	2011	645	58.5	5.5	7.5	26.5	58.5	2.1	0.0	60.0	57.0
	2015	702	63.1	6.1	5.7	23.0	63.1	1.9	0.2	64.4	61.9
Saudi Arabia	2011	661	33.9	19.3	26.1	18.4	33.9	2.3	0.0	31.9	35.9
	2015	616	26.1	24.8	26.3	18.0	26.1	4.2	0.6	27.8	24.5
Serbia	2011	631	52.0	6.6	13.3	21.8	52.0	6.2	0.0	48.2	55.3
	2015	566	53.2	6.8	11.1	22.4	53.2	6.6	0.0	56.5	49.7
Singapore	2011	915	47.5	5.3	11.8	34.8	47.5	0.6	0.0	47.0	48.0
	2015	935	54.9	6.3	8.6	29.7	54.9	0.4	0.0	56.1	53.5
Slovak Republic	2011	814	69.8	9.1	8.3	10.6	69.8	2.2	0.0	76.6	63.8
	2015	828	60.1	9.2	9.3	18.1	60.1	3.2	0.1	58.4	61.8
Slovenia	2011	642	38.9	11.2	15.1	29.8	38.9	4.9	0.1	40.5	37.4
	2015	645	42.5	11.4	14.2	27.0	42.5	4.9	0.0	37.3	47.9
Spain	2011	602	47.7	8.4	14.6	24.3	47.7	4.9	0.1	47.0	48.3
	2015	1091	52.3	7.6	14.6	22.6	52.3	2.8	0.1	49.3	55.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_02 (M041007): Number / Knowing      Type: MC      Key: D  
Label: Which could be Pat's number

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	48.5	15.1	13.8	17.4	48.5	4.9	0.3	50.3	47.0
	2015	575	55.4	7.8	10.2	18.4	55.4	8.1	0.2	55.0	56.3
Turkey	2011	1069	48.5	13.1	16.0	21.4	48.5	0.9	0.2	51.3	45.9
	2015	924	48.8	14.6	13.0	22.2	48.8	1.4	0.0	48.4	49.3
United Arab Emirates	2011	2091	34.6	14.0	25.3	22.0	34.6	3.9	0.1	35.6	33.5
	2015	3031	36.2	13.2	22.5	24.4	36.2	3.4	0.3	38.8	34.0
United States	2011	1776	55.4	10.2	12.3	21.1	55.4	0.9	0.1	51.6	59.5
	2015	1430	57.3	9.9	10.5	21.0	57.3	1.0	0.2	61.1	53.4
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International Avg (n=40)	2011	30272	49.8	10.6	15.2	20.9	49.8	3.3	0.2	50.3	49.3
	2015	30677	51.5	11.0	13.8	20.3	51.5	3.1	0.2	51.5	51.6
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Ontario, Canada	2011	654	41.2	9.8	16.1	31.6	41.2	1.3	0.0	35.9	46.3
	2015	661	41.0	18.3	15.5	23.6	41.0	1.1	0.4	40.7	41.4
Quebec, Canada	2011	609	55.9	9.8	10.9	19.2	55.9	4.2	0.0	57.2	54.6
	2015	396	57.5	9.6	8.6	22.7	57.5	1.5	0.1	55.7	59.6
Norway (4)	2011	438	43.8	12.8	14.9	21.4	43.8	6.1	1.0	43.3	44.3
	2015	594	47.0	15.9	12.7	19.9	47.0	4.4	0.0	49.6	44.9
Abu Dhabi, UAE	2011	587	29.1	14.0	28.8	23.9	29.1	3.9	0.2	30.9	27.3
	2015	716	32.8	15.3	26.1	22.1	32.8	3.3	0.3	34.6	31.5
Dubai, UAE	2011	871	46.4	10.8	15.8	23.5	46.4	3.4	0.1	46.0	46.8
	2015	1063	49.0	10.8	13.7	24.4	49.0	2.0	0.2	50.3	47.6
Florida, US	2011	370	63.3	7.1	9.3	19.2	63.3	1.1	0.0	63.5	63.1
	2015	282	59.7	9.9	8.9	20.5	59.7	1.1	0.0	59.5	59.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_03 (M041280): Number / Knowing      Type: MC      Key: B  
Label: Number closest to 1362/ 32

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	36.6	48.7	36.6	10.7	1.7	2.1	0.2	33.4	39.4
	2015	869	40.5	45.3	40.5	9.3	2.4	2.4	0.1	36.0	44.5
Bahrain	2011	572	27.1	52.8	27.1	12.1	2.6	4.6	0.8	22.7	31.4
	2015	594	37.7	44.0	37.7	10.5	4.6	3.1	0.1	36.7	38.7
Belgium (Flemish)	2011	681	42.0	46.8	42.0	9.3	1.2	0.7	0.0	36.5	47.8
	2015	766	40.4	46.2	40.4	8.3	1.5	3.3	0.2	37.7	43.2
Chile	2011	792	31.5	50.2	31.5	8.5	3.9	5.1	0.8	31.7	31.3
	2015	681	30.3	53.6	30.3	8.7	2.6	3.2	1.6	28.5	32.1
Chinese Taipei	2011	608	80.6	7.5	80.6	9.0	2.3	0.6	0.0	82.3	79.1
	2015	616	78.3	7.2	78.3	11.7	1.9	0.8	0.0	81.5	75.2
Croatia	2011	649	52.9	24.0	52.9	15.2	2.5	5.5	0.0	52.3	53.4
	2015	563	49.7	31.2	49.7	11.9	2.9	4.3	0.0	46.8	52.9
Czech Republic	2011	646	35.5	41.0	35.5	12.0	2.5	8.9	0.0	35.0	36.0
	2015	746	38.3	43.1	38.3	7.1	2.0	9.5	0.0	37.6	39.1
Denmark	2011	561	37.7	44.0	37.7	10.3	0.7	6.7	0.7	32.0	44.1
	2015	525	45.6	33.9	45.6	10.2	1.0	8.7	0.5	41.5	49.2
England	2011	496	39.3	41.2	39.3	14.7	1.7	3.0	0.0	39.8	38.8
	2015	574	48.1	35.4	48.1	10.9	2.4	3.2	0.0	46.1	50.1
Finland	2011	668	44.6	42.7	44.6	7.4	1.7	3.4	0.1	43.1	46.0
	2015	718	39.4	45.7	39.4	10.3	0.4	4.0	0.1	38.7	40.1
Georgia	2011	682	41.4	30.8	41.4	10.2	6.1	11.4	0.1	42.2	40.7
	2015	561	43.7	38.1	43.7	9.0	4.6	4.4	0.2	42.2	45.0
Germany	2011	567	42.5	41.5	42.5	8.0	1.6	6.2	0.2	36.1	48.4
	2015	568	38.7	43.6	38.7	9.8	1.2	6.5	0.2	33.6	43.3
Hong Kong SAR	2011	562	73.7	9.7	73.7	13.1	2.8	0.7	0.0	75.7	72.1
	2015	514	77.4	8.5	77.4	11.8	2.1	0.2	0.0	76.0	78.5
Hungary	2011	750	46.8	37.6	46.8	9.9	1.5	3.9	0.4	44.5	49.3
	2015	713	49.1	37.3	49.1	7.8	2.0	3.7	0.1	45.2	52.9
Iran, Islamic Rep. of	2011	818	35.8	36.9	35.8	15.2	4.3	7.2	0.6	35.3	36.3
	2015	547	26.6	45.4	26.6	12.0	4.7	10.8	0.4	21.9	31.5
Ireland	2011	663	33.9	54.6	33.9	8.5	1.1	1.9	0.0	32.2	35.6
	2015	622	38.9	51.4	38.9	7.8	0.4	1.5	0.0	34.7	42.5
Italy	2011	599	50.9	28.5	50.9	10.6	2.2	7.7	0.1	49.3	52.6
	2015	613	53.1	28.8	53.1	9.1	2.3	6.3	0.2	52.5	53.7
Japan	2011	624	70.6	18.2	70.6	8.4	2.3	0.4	0.0	73.6	68.1
	2015	621	73.0	17.0	73.0	8.0	1.6	0.3	0.0	74.1	72.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_03 (M041280): Number / Knowing      Type: MC      Key: B  
Label: Number closest to 1362/ 32

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	57.8	14.2	57.8	14.4	8.4	4.9	0.3	56.5	59.1
	2015	667	66.7	11.8	66.7	11.4	8.9	1.0	0.2	66.1	67.3
Korea, Rep. of	2011	613	74.4	13.9	74.4	9.5	1.8	0.5	0.0	70.8	78.0
	2015	667	68.1	15.8	68.1	12.2	3.6	0.3	0.0	68.2	68.0
Kuwait	2011	587	23.0	46.5	23.0	13.2	5.3	11.1	0.8	19.1	28.0
	2015	505	25.9	45.1	25.9	9.1	4.7	13.0	2.1	25.8	26.1
Lithuania	2011	657	57.1	18.8	57.1	13.0	6.6	4.3	0.2	53.8	59.8
	2015	655	51.4	25.0	51.4	12.2	3.6	7.8	0.0	51.6	51.3
Morocco	2011	1087	31.3	26.8	31.3	23.8	9.5	7.2	1.5	34.0	28.3
	2015	721	34.5	26.2	34.5	23.8	8.4	6.9	0.2	36.0	32.9
Netherlands	2011	459	45.7	41.0	45.7	10.9	0.9	1.5	0.0	48.6	42.6
	2015	639	49.5	35.5	49.5	10.5	2.2	2.1	0.2	45.7	53.4
New Zealand	2011	800	39.9	43.4	39.9	11.5	2.4	2.8	0.0	38.2	41.7
	2015	913	40.7	42.2	40.7	12.4	1.9	1.8	1.1	41.7	39.7
Northern Ireland	2011	499	47.4	36.1	47.4	12.4	2.6	1.5	0.0	42.2	51.9
	2015	435	50.5	35.6	50.5	10.8	3.2	0.0	0.0	46.5	54.7
Oman	2011	1484	27.5	42.8	27.5	16.7	6.2	6.3	0.5	27.2	27.8
	2015	1302	31.8	41.1	31.8	17.6	4.4	4.9	0.2	33.9	29.8
Portugal	2011	592	57.4	28.1	57.4	9.4	1.8	3.1	0.2	59.0	56.0
	2015	674	53.2	33.2	53.2	9.0	1.4	3.3	0.0	53.1	53.3
Qatar	2011	585	32.9	40.4	32.9	15.4	6.4	4.7	0.2	29.0	36.8
	2015	741	35.7	41.2	35.7	11.6	5.1	5.5	0.9	32.3	39.2
Russian Federation	2011	645	71.4	10.2	71.4	10.5	5.9	2.0	0.0	74.4	68.5
	2015	702	76.2	9.6	76.2	9.0	3.7	1.2	0.2	74.4	78.0
Saudi Arabia	2011	660	30.0	48.0	30.0	15.6	3.8	2.3	0.2	23.7	36.6
	2015	616	34.3	44.8	34.3	10.6	4.8	4.6	0.8	33.6	34.9
Serbia	2011	631	62.5	20.5	62.5	8.2	3.5	5.3	0.0	62.0	63.0
	2015	566	58.2	21.0	58.2	11.3	3.4	6.0	0.0	58.9	57.5
Singapore	2011	915	64.0	18.7	64.0	13.7	2.9	0.7	0.0	61.8	66.1
	2015	935	65.3	16.8	65.3	13.1	4.5	0.4	0.0	64.1	66.5
Slovak Republic	2011	814	39.3	44.4	39.3	10.4	1.4	4.4	0.0	37.0	41.4
	2015	828	41.7	38.1	41.7	12.3	3.1	4.8	0.1	40.9	42.5
Slovenia	2011	645	33.4	52.4	33.4	5.9	1.3	6.8	0.2	29.3	37.3
	2015	645	33.4	47.1	33.4	10.3	1.8	7.4	0.0	27.3	39.7
Spain	2011	602	44.8	32.4	44.8	11.7	2.7	8.2	0.1	42.3	47.3
	2015	1091	54.6	28.7	54.6	7.4	2.3	6.8	0.1	56.2	53.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_03 (M041280): Number / Knowing      Type: MC      Key: B  
Label: Number closest to 1362/ 32

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	42.6	42.9	42.6	5.2	0.9	8.1	0.3	42.9	42.5
	2015	575	43.0	40.0	43.0	6.0	0.4	10.4	0.2	40.9	44.7
Turkey	2011	1069	48.7	34.7	48.7	7.2	6.1	3.0	0.2	44.5	52.7
	2015	924	51.2	30.4	51.2	9.0	5.0	4.5	0.0	51.7	50.7
United Arab Emirates	2011	2091	34.7	44.0	34.7	11.5	5.3	4.2	0.2	32.0	37.3
	2015	3032	37.6	40.2	37.6	13.3	4.7	3.9	0.3	37.1	38.0
United States	2011	1776	48.3	36.3	48.3	11.0	2.4	1.9	0.1	44.8	52.1
	2015	1430	47.5	36.6	47.5	10.8	2.9	2.0	0.2	45.8	49.2
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International Avg (n=40)	2011	30288	45.9	34.8	45.9	11.4	3.3	4.4	0.2	44.3	47.6
	2015	30674	47.5	34.0	47.5	10.7	3.1	4.4	0.3	46.1	48.9
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Ontario, Canada	2011	654	42.9	44.6	42.9	9.8	1.2	1.5	0.0	41.1	44.6
	2015	664	39.7	44.0	39.7	11.6	2.4	1.8	0.5	38.2	40.9
Quebec, Canada	2011	609	37.0	48.9	37.0	8.6	1.1	4.5	0.0	27.8	46.2
	2015	402	44.7	42.2	44.7	8.5	1.8	2.6	0.1	40.3	49.2
Norway (4)	2011	438	39.6	48.8	39.6	4.9	1.1	4.6	1.0	34.4	44.3
	2015	594	39.0	46.5	39.0	7.0	1.2	6.1	0.2	36.5	41.1
Abu Dhabi, UAE	2011	587	31.0	46.4	31.0	11.5	6.6	4.2	0.3	29.8	32.2
	2015	717	33.2	44.5	33.2	12.2	5.8	4.0	0.3	29.8	35.8
Dubai, UAE	2011	871	38.1	40.7	38.1	12.9	4.4	3.7	0.1	33.8	41.7
	2015	1063	44.6	34.5	44.6	13.3	4.7	2.7	0.2	46.5	42.7
Florida, US	2011	370	50.9	35.8	50.9	9.1	2.0	2.1	0.0	48.1	53.7
	2015	282	55.2	30.6	55.2	10.5	1.3	2.5	0.0	55.9	54.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_04 (M041059): Number / Knowing Type: CR 1 Point  
Label: Fraction of circles that are black

COUNTRY	Year	N	10 %	11 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	52.6	0.8	0.9	2.5	20.8	18.7	3.4	0.2	53.4	58.0	49.3
	2015	870	60.7	0.9	0.3	4.5	19.7	11.3	2.5	0.1	61.6	63.3	60.1
Bahrain	2011	572	65.0	0.7	0.4	4.8	9.9	16.6	1.8	0.8	65.7	69.0	62.5
	2015	594	69.2	0.6	0.7	3.6	10.6	13.7	1.5	0.1	69.8	74.8	64.7
Belgium (Flemish)	2011	681	66.5	1.6	0.0	0.3	18.2	12.7	0.6	0.0	68.2	68.0	68.4
	2015	766	64.8	2.3	0.0	0.8	21.4	9.1	1.4	0.2	67.1	71.3	62.8
Chile	2011	792	46.1	3.4	0.2	7.1	19.5	19.7	3.1	0.9	49.5	51.7	47.0
	2015	681	53.9	0.0	0.2	4.9	20.0	15.6	3.6	1.8	53.9	51.5	56.4
Chinese Taipei	2011	608	94.9	0.5	0.2	1.4	0.6	2.3	0.1	0.0	95.3	96.3	94.5
	2015	616	92.9	0.2	0.2	2.0	0.4	3.7	0.6	0.0	93.1	95.1	91.3
Croatia	2011	649	5.4	0.3	0.4	2.7	12.3	34.1	44.8	0.0	5.7	5.3	6.1
	2015	563	6.7	0.5	0.0	3.2	18.0	37.4	34.2	0.0	7.2	7.9	6.5
Czech Republic	2011	646	12.8	1.7	0.0	0.2	30.1	35.2	19.5	0.5	14.5	12.5	16.1
	2015	746	21.4	1.3	0.1	1.9	27.7	33.7	13.8	0.0	22.8	24.2	21.1
Denmark	2011	561	58.8	1.1	1.3	4.1	11.5	19.8	2.3	1.0	60.0	59.9	60.0
	2015	525	66.1	0.6	0.6	3.7	13.6	12.8	2.0	0.5	66.8	67.4	66.2
England	2011	496	63.1	4.3	1.2	4.6	10.2	14.1	2.5	0.0	67.5	68.3	66.6
	2015	574	63.3	6.1	1.3	5.3	7.9	15.0	1.1	0.0	69.4	71.5	67.3
Finland	2011	668	79.5	1.3	0.0	1.9	3.2	12.8	1.2	0.1	80.8	82.4	79.3
	2015	718	77.3	1.2	0.1	3.8	7.3	8.5	1.8	0.1	78.5	84.4	72.9
Georgia	2011	682	14.1	0.3	0.0	2.6	46.9	29.5	6.6	0.1	14.4	15.1	13.8
	2015	561	12.6	0.1	0.0	1.0	50.4	29.9	5.5	0.4	12.8	15.5	10.3
Germany	2011	567	3.8	0.2	0.0	1.2	41.9	33.3	19.5	0.2	4.0	2.6	5.2
	2015	568	3.4	0.0	0.0	1.1	43.9	30.1	21.4	0.2	3.4	2.7	4.0
Hong Kong SAR	2011	562	51.3	43.0	0.2	0.7	1.1	3.5	0.3	0.0	94.3	95.8	93.1
	2015	514	42.2	52.4	0.0	1.3	0.0	4.1	0.0	0.0	94.6	94.9	94.3
Hungary	2011	750	41.7	1.8	0.2	3.6	17.2	33.7	1.2	0.6	43.5	46.5	40.1
	2015	713	31.8	2.3	0.1	2.3	21.0	40.4	1.9	0.1	34.1	36.2	32.1
Iran, Islamic Rep. of	2011	818	63.1	0.0	0.3	2.2	14.8	16.6	2.3	0.7	63.1	68.3	57.9
	2015	547	59.3	0.4	0.1	3.4	21.1	9.0	6.2	0.5	59.7	60.9	58.4
Ireland	2011	663	69.2	3.1	0.3	3.1	7.1	15.7	1.4	0.0	72.4	75.4	69.3
	2015	622	74.6	3.1	0.5	1.2	4.5	15.0	1.1	0.0	77.7	82.6	73.6
Italy	2011	599	56.3	0.3	0.3	6.6	16.5	15.9	3.9	0.1	56.7	57.7	55.6
	2015	613	61.9	0.4	0.0	6.2	14.5	13.2	3.4	0.4	62.3	62.7	62.0
Japan	2011	624	81.0	0.3	0.6	5.1	2.0	10.4	0.6	0.0	81.3	83.3	79.7
	2015	621	84.4	1.0	0.3	2.6	3.8	7.4	0.5	0.0	85.4	87.4	83.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_04 (M041059): Number / Knowing Type: CR 1 Point  
Label: Fraction of circles that are black

COUNTRY	Year	N	10 %	11 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	23.5	2.0	0.4	1.2	38.8	30.4	3.4	0.3	25.5	22.6	28.1
	2015	667	41.7	1.7	0.2	0.6	29.1	26.1	0.4	0.2	43.4	45.0	42.0
Korea, Rep. of	2011	613	82.2	7.7	0.1	1.6	3.9	4.2	0.2	0.0	89.9	91.4	88.4
	2015	667	90.9	1.0	0.0	1.6	2.6	3.6	0.3	0.0	91.9	93.1	90.6
Kuwait	2011	590	38.4	0.6	1.6	5.9	10.7	30.4	11.5	0.9	39.0	47.2	28.7
	2015	504	43.3	0.4	0.6	4.4	11.3	26.5	11.3	2.3	43.7	48.8	38.2
Lithuania	2011	657	43.1	3.7	0.3	0.6	30.9	14.7	6.5	0.2	46.8	50.2	44.0
	2015	655	50.9	2.3	0.0	1.4	25.6	13.8	6.0	0.0	53.2	57.6	48.7
Morocco	2011	1131	8.1	0.2	0.1	2.8	15.7	45.2	26.3	1.6	8.3	8.8	7.7
	2015	721	11.4	0.7	0.2	8.8	26.5	40.2	11.6	0.6	12.1	16.4	7.8
Netherlands	2011	459	69.1	6.2	0.2	5.1	7.4	11.4	0.6	0.0	75.2	75.5	75.2
	2015	639	62.2	2.7	0.0	2.5	12.0	19.6	0.9	0.2	64.8	65.3	64.5
New Zealand	2011	800	51.3	1.9	0.4	4.6	20.0	19.8	2.0	0.0	53.1	53.6	52.7
	2015	913	59.3	2.6	0.4	7.5	11.1	17.3	0.8	1.1	61.9	64.1	60.0
Northern Ireland	2011	499	69.5	9.7	1.8	2.6	5.6	9.7	1.0	0.0	79.2	83.4	75.5
	2015	444	62.1	13.8	1.2	1.5	5.2	14.4	1.8	0.0	75.9	78.6	73.2
Oman	2011	1484	48.1	0.8	0.8	5.8	10.7	28.7	4.4	0.6	48.9	56.4	42.4
	2015	1301	53.4	0.6	0.5	6.4	11.6	24.5	2.7	0.2	54.0	58.2	49.9
Portugal	2011	592	22.8	0.7	0.0	3.6	14.2	49.4	9.1	0.2	23.6	27.9	20.1
	2015	674	79.9	1.3	0.3	3.8	0.8	12.0	1.9	0.0	81.3	82.4	80.0
Qatar	2011	585	50.2	0.8	0.1	5.3	19.7	19.6	3.8	0.4	51.1	51.5	50.6
	2015	741	57.5	0.5	1.0	5.0	15.4	17.2	2.4	1.0	58.0	61.1	55.1
Russian Federation	2011	645	35.7	2.5	0.0	2.6	22.7	33.9	2.7	0.0	38.1	38.7	37.5
	2015	702	36.7	2.5	0.0	1.8	23.9	31.5	3.2	0.3	39.2	41.8	36.7
Saudi Arabia	2011	663	56.5	0.1	0.7	6.9	5.5	25.4	4.6	0.2	56.6	62.5	50.4
	2015	619	53.3	0.0	0.1	1.5	4.2	30.3	9.5	1.1	53.3	63.2	43.7
Serbia	2011	631	44.6	1.8	0.3	2.1	21.7	24.0	5.5	0.0	46.4	47.5	45.4
	2015	566	44.1	1.2	0.2	1.3	20.4	24.3	8.3	0.2	45.3	45.6	45.1
Singapore	2011	915	30.2	60.2	0.5	2.6	2.0	4.2	0.4	0.0	90.4	92.5	88.4
	2015	935	33.2	57.8	0.3	0.8	1.4	6.3	0.2	0.0	91.0	92.7	89.3
Slovak Republic	2011	814	24.4	2.2	0.1	6.7	9.5	44.8	12.3	0.0	26.6	29.0	24.5
	2015	828	19.0	1.5	0.1	4.7	9.0	41.5	24.1	0.2	20.5	20.5	20.4
Slovenia	2011	645	28.4	2.0	0.0	1.4	30.4	31.3	6.4	0.2	30.4	32.1	28.7
	2015	645	45.6	2.5	0.4	2.7	9.7	34.0	5.0	0.0	48.2	47.9	48.4
Spain	2011	602	56.8	0.4	0.1	6.2	10.5	17.8	7.9	0.2	57.2	59.9	54.6
	2015	1091	60.3	0.1	0.4	8.1	7.0	19.2	4.8	0.2	60.4	65.6	55.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_04 (M041059): Number / Knowing Type: CR 1 Point  
Label: Fraction of circles that are black

COUNTRY	Year	N	10 %	11 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	16.8	0.3	0.0	5.9	19.6	35.7	21.4	0.3	17.1	16.9	17.2
	2015	575	30.5	0.8	0.0	6.3	13.1	35.8	13.5	0.2	31.2	33.3	29.5
Turkey	2011	1069	56.8	0.6	0.4	4.7	3.0	31.0	3.3	0.2	57.5	55.6	59.2
	2015	924	60.2	0.1	0.3	4.6	2.4	29.2	3.2	0.0	60.3	62.3	58.3
United Arab Emirates	2011	2091	54.9	0.3	0.7	3.3	16.3	20.8	3.2	0.4	55.2	58.0	52.6
	2015	3032	55.0	1.2	0.3	4.3	16.4	19.3	3.2	0.3	56.2	59.1	53.6
United States	2011	1776	79.4	3.0	1.2	2.8	5.0	7.8	0.7	0.1	82.4	81.6	83.2
	2015	1430	74.8	7.1	0.9	2.1	6.0	7.7	0.9	0.4	82.0	82.5	81.4
-----													
International Avg (n=40)	2011	30338	47.9	4.3	0.4	3.5	15.2	22.1	6.3	0.3	52.2	54.0	50.5
	2015	30685	51.8	4.4	0.3	3.4	14.3	20.1	5.5	0.3	56.2	58.5	54.0
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Ontario, Canada	2011	654	57.5	1.1	0.5	3.5	17.8	18.2	1.4	0.0	58.6	60.8	56.5
	2015	664	53.8	0.8	0.7	3.7	19.5	19.1	1.9	0.5	54.6	57.9	51.6
Quebec, Canada	2011	609	71.5	1.6	0.2	2.5	5.4	15.7	3.1	0.0	73.1	71.9	74.3
	2015	403	76.5	2.5	0.3	5.3	5.3	9.4	0.7	0.1	79.0	79.2	79.0
Norway (4)	2011	438	41.3	1.5	0.2	5.8	25.9	19.0	5.1	1.0	42.9	41.6	44.1
	2015	594	40.5	0.5	0.2	5.7	25.3	21.3	6.4	0.2	41.1	41.8	40.5
Abu Dhabi, UAE	2011	587	50.1	0.2	0.6	3.5	17.0	24.4	3.5	0.7	50.3	55.4	45.4
	2015	717	39.9	0.9	0.4	3.9	22.4	28.2	4.1	0.3	40.7	40.2	41.2
Dubai, UAE	2011	871	61.6	0.9	0.6	2.3	14.8	17.3	2.4	0.2	62.5	62.4	62.5
	2015	1063	70.5	1.8	0.4	4.1	9.7	11.4	2.0	0.2	72.2	77.2	67.1
Florida, US	2011	370	79.4	2.9	0.9	3.2	5.4	7.5	0.7	0.0	82.3	83.4	81.2
	2015	282	73.2	6.7	1.1	2.4	7.1	8.6	1.0	0.0	79.9	83.4	76.4
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M07\_05 (M041046): Number / Knowing      Type: MC      Key: A  
Label: Which is the largest fraction

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	53.4	53.4	0.9	2.0	41.4	2.1	0.2	50.3	56.1
	2015	870	62.7	62.7	1.1	1.1	33.7	1.3	0.1	58.3	66.5
Bahrain	2011	572	31.5	31.5	1.1	4.1	61.4	1.0	0.8	34.7	28.4
	2015	594	40.5	40.5	1.9	1.2	55.7	0.6	0.1	41.5	39.5
Belgium (Flemish)	2011	681	81.6	81.6	0.2	0.2	17.5	0.6	0.0	79.1	84.2
	2015	766	82.2	82.2	0.2	0.1	16.5	0.9	0.2	79.6	84.8
Chile	2011	792	27.8	27.8	0.6	1.5	67.5	1.6	1.0	25.7	30.1
	2015	681	32.6	32.6	1.3	1.5	61.7	0.9	2.1	30.1	35.0
Chinese Taipei	2011	608	79.1	79.1	0.4	0.6	19.7	0.1	0.0	80.6	77.8
	2015	616	66.5	66.5	0.6	1.1	31.2	0.6	0.0	63.8	69.1
Croatia	2011	649	11.1	11.1	1.8	2.7	72.8	11.5	0.0	8.0	14.1
	2015	563	12.3	12.3	4.1	5.7	69.1	8.8	0.0	10.6	14.2
Czech Republic	2011	646	22.2	22.2	1.0	2.1	68.6	5.7	0.5	20.7	23.4
	2015	746	35.3	35.3	0.6	0.8	60.4	2.9	0.0	34.5	36.3
Denmark	2011	561	49.2	49.2	0.6	1.3	47.4	0.6	1.0	38.4	61.4
	2015	525	55.7	55.7	0.2	0.7	41.5	1.5	0.5	50.6	60.2
England	2011	496	64.1	64.1	2.2	2.0	29.2	2.4	0.0	60.7	67.5
	2015	574	69.5	69.5	1.5	1.3	26.9	0.7	0.0	66.3	72.6
Finland	2011	668	70.6	70.6	0.1	0.1	28.1	0.7	0.4	63.0	77.6
	2015	718	65.4	65.4	0.2	0.2	32.9	1.3	0.1	65.3	65.5
Georgia	2011	682	42.4	42.4	1.2	3.0	46.8	6.5	0.1	40.2	44.4
	2015	561	30.0	30.0	2.3	3.1	58.4	5.8	0.4	30.5	29.6
Germany	2011	567	38.4	38.4	4.6	4.1	44.4	8.3	0.2	29.8	46.3
	2015	568	36.7	36.7	4.3	4.6	47.5	6.7	0.2	33.3	39.8
Hong Kong SAR	2011	562	91.1	91.1	0.4	0.5	7.9	0.0	0.0	90.1	91.9
	2015	514	92.7	92.7	0.2	0.0	7.1	0.0	0.0	89.3	95.5
Hungary	2011	750	42.2	42.2	1.4	1.7	52.4	1.8	0.6	41.5	43.1
	2015	713	40.6	40.6	0.9	1.1	56.3	0.7	0.3	37.4	43.8
Iran, Islamic Rep. of	2011	818	37.5	37.5	1.8	0.7	58.1	1.1	0.8	35.7	39.3
	2015	547	30.3	30.3	0.7	2.8	63.4	2.1	0.6	24.1	36.9
Ireland	2011	663	81.8	81.8	0.7	1.2	15.7	0.6	0.0	79.0	84.7
	2015	622	89.8	89.8	1.4	0.5	7.7	0.7	0.0	91.1	88.7
Italy	2011	599	41.4	41.4	0.9	0.9	55.6	1.2	0.1	42.9	39.8
	2015	613	45.6	45.6	0.4	0.5	52.4	0.7	0.4	39.6	50.9
Japan	2011	624	67.1	67.1	0.4	0.0	32.4	0.1	0.0	64.0	69.7
	2015	621	70.9	70.9	0.3	0.1	28.6	0.0	0.0	73.8	68.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_05 (M041046): Number / Knowing      Type: MC      Key: A  
Label: Which is the largest fraction

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	25.4	25.4	0.2	1.9	71.3	0.8	0.3	20.8	29.7
	2015	667	39.4	39.4	1.6	1.3	57.2	0.3	0.2	41.5	37.5
Korea, Rep. of	2011	613	65.5	65.5	0.0	0.0	34.3	0.2	0.0	59.8	71.2
	2015	667	67.1	67.1	0.2	0.0	32.7	0.1	0.0	62.5	71.6
Kuwait	2011	588	22.6	22.6	6.2	5.2	59.3	5.9	0.8	22.7	22.4
	2015	505	26.3	26.3	4.2	5.3	56.0	5.7	2.5	25.4	27.3
Lithuania	2011	657	63.7	63.7	0.4	2.1	32.9	0.7	0.2	58.4	68.0
	2015	655	58.4	58.4	0.6	1.0	39.1	1.0	0.0	51.9	65.0
Morocco	2011	1091	9.7	9.7	9.1	10.1	64.0	5.3	1.8	9.6	9.7
	2015	721	23.8	23.8	4.6	8.3	59.9	2.8	0.6	19.5	28.0
Netherlands	2011	459	48.8	48.8	0.6	1.7	48.0	0.8	0.0	43.9	55.6
	2015	639	33.7	33.7	1.1	1.1	63.1	0.6	0.4	31.8	35.8
New Zealand	2011	800	71.3	71.3	0.8	2.4	23.5	2.0	0.0	71.0	71.6
	2015	913	73.6	73.6	0.9	1.7	22.1	0.4	1.2	75.3	72.1
Northern Ireland	2011	499	80.0	80.0	3.1	2.9	13.7	0.3	0.0	77.5	82.1
	2015	438	81.5	81.5	1.7	0.6	16.1	0.0	0.0	78.0	85.3
Oman	2011	1484	41.2	41.2	2.3	4.4	49.4	2.1	0.6	46.1	37.0
	2015	1300	50.5	50.5	3.0	4.5	40.2	1.5	0.2	53.6	47.5
Portugal	2011	592	28.1	28.1	1.6	4.0	62.9	3.0	0.4	23.7	31.7
	2015	674	62.5	62.5	0.3	0.9	36.1	0.3	0.0	56.3	69.2
Qatar	2011	585	32.5	32.5	5.1	6.4	54.0	1.7	0.4	32.0	33.0
	2015	741	30.9	30.9	2.0	5.9	58.6	1.7	1.0	24.4	37.3
Russian Federation	2011	645	40.5	40.5	0.0	1.3	57.2	1.1	0.0	40.7	40.2
	2015	702	53.1	53.1	1.0	0.6	44.1	0.9	0.3	55.1	51.1
Saudi Arabia	2011	663	31.8	31.8	2.5	2.8	61.7	0.9	0.2	27.5	36.3
	2015	617	24.9	24.9	2.9	5.8	63.0	2.3	1.2	23.8	26.0
Serbia	2011	631	61.5	61.5	0.5	1.0	34.8	2.1	0.0	57.2	65.1
	2015	566	66.8	66.8	0.6	1.9	29.0	1.6	0.2	64.3	69.4
Singapore	2011	915	82.6	82.6	1.7	1.6	13.8	0.3	0.0	80.5	84.6
	2015	935	85.3	85.3	0.9	1.1	12.6	0.2	0.0	85.4	85.1
Slovak Republic	2011	814	25.0	25.0	1.1	1.7	69.7	2.6	0.0	20.7	28.8
	2015	828	18.6	18.6	1.3	3.0	72.6	4.3	0.2	18.1	19.0
Slovenia	2011	645	40.7	40.7	0.8	2.0	54.5	1.8	0.2	37.2	44.1
	2015	645	51.8	51.8	0.4	1.1	44.1	2.6	0.0	46.6	57.2
Spain	2011	602	24.1	24.1	0.5	1.1	70.3	3.4	0.5	22.0	26.3
	2015	1091	30.7	30.7	0.4	0.3	67.6	0.8	0.2	25.5	35.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_05 (M041046): Number / Knowing Type: MC Key: A  
Label: Which is the largest fraction

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	35.1	35.1	2.0	4.3	52.1	6.3	0.3	34.4	35.7
	2015	575	44.1	44.1	1.5	1.8	47.6	4.8	0.2	42.3	45.6
Turkey	2011	1069	44.2	44.2	1.2	0.8	53.4	0.3	0.2	43.2	45.2
	2015	924	45.4	45.4	1.2	1.1	52.2	0.2	0.0	48.3	42.6
United Arab Emirates	2011	2091	30.8	30.8	2.0	4.0	61.0	1.8	0.4	27.0	34.4
	2015	3032	33.6	33.6	3.6	4.8	55.3	2.3	0.3	35.0	32.4
United States	2011	1776	71.0	71.0	1.1	1.1	25.9	0.8	0.1	68.6	73.7
	2015	1430	71.4	71.4	1.0	1.2	24.6	1.5	0.4	70.7	72.1
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International Avg (n=40)	2011	30296	47.7	47.7	1.6	2.3	45.9	2.3	0.3	45.2	50.2
	2015	30677	50.8	50.8	1.4	2.0	43.6	1.8	0.3	48.9	52.7
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Ontario, Canada	2011	654	38.6	38.6	0.6	1.0	58.7	1.1	0.0	33.3	43.9
	2015	664	38.8	38.8	1.4	1.2	56.7	1.4	0.5	34.8	42.9
Quebec, Canada	2011	609	51.5	51.5	1.1	0.3	44.4	2.6	0.0	51.2	51.8
	2015	402	54.1	54.1	0.8	1.4	43.1	0.4	0.1	52.6	55.9
Norway (4)	2011	438	46.1	46.1	1.4	1.8	47.5	2.3	1.0	40.3	51.3
	2015	594	40.6	40.6	1.6	1.8	54.4	1.5	0.2	34.7	45.6
Abu Dhabi, UAE	2011	587	31.9	31.9	1.8	3.9	60.1	1.7	0.7	28.0	35.5
	2015	717	31.9	31.9	6.3	8.7	50.8	2.0	0.3	36.0	28.8
Dubai, UAE	2011	871	36.8	36.8	2.3	3.1	55.8	1.8	0.2	35.2	38.1
	2015	1063	49.0	49.0	0.9	1.8	46.2	1.9	0.2	48.4	49.5
Florida, US	2011	370	72.3	72.3	2.8	2.9	20.4	1.7	0.0	65.6	78.7
	2015	282	80.8	80.8	1.3	1.4	15.6	1.0	0.0	77.9	83.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_06 (M041048): Number / Reasoning      Type: MC      Key: B  
Label: Height of wall made of 4 rows

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	46.3	19.0	46.3	17.2	15.8	1.5	0.2	42.2	49.9
	2015	870	46.9	24.2	46.9	11.3	15.8	1.6	0.1	43.6	49.9
Bahrain	2011	572	35.9	20.1	35.9	14.5	26.0	2.5	1.0	32.5	39.4
	2015	594	39.6	22.8	39.6	12.4	22.0	3.1	0.1	41.3	38.0
Belgium (Flemish)	2011	681	55.7	25.6	55.7	10.2	8.0	0.5	0.0	50.3	61.3
	2015	766	55.5	21.3	55.5	11.4	9.5	2.1	0.2	52.5	58.5
Chile	2011	792	37.0	24.4	37.0	15.2	19.0	3.4	1.0	35.2	39.0
	2015	681	35.2	26.2	35.2	11.3	22.6	2.3	2.3	32.1	38.3
Chinese Taipei	2011	608	69.0	16.2	69.0	5.3	8.9	0.5	0.0	69.4	68.7
	2015	616	68.1	19.7	68.1	4.0	7.5	0.7	0.0	65.0	71.1
Croatia	2011	649	39.6	26.0	39.6	8.8	20.3	5.3	0.0	34.1	45.1
	2015	563	40.3	24.6	40.3	11.1	20.4	3.7	0.0	32.9	48.4
Czech Republic	2011	646	49.7	20.6	49.7	7.5	18.4	3.3	0.5	48.9	50.4
	2015	746	51.4	23.7	51.4	7.8	13.4	3.6	0.0	48.6	54.7
Denmark	2011	561	51.5	12.8	51.5	15.8	13.5	5.4	1.0	43.0	61.3
	2015	525	56.6	15.7	56.6	9.7	12.9	4.6	0.5	48.9	63.5
England	2011	496	51.3	18.1	51.3	13.3	15.6	1.7	0.0	48.8	53.8
	2015	574	54.9	16.9	54.9	12.1	14.6	1.5	0.0	49.2	60.3
Finland	2011	668	56.1	15.3	56.1	14.6	11.8	1.8	0.4	48.8	62.8
	2015	718	55.4	12.4	55.4	13.3	15.9	2.9	0.1	54.1	56.7
Georgia	2011	683	44.5	22.0	44.5	10.3	16.7	6.3	0.2	43.5	45.4
	2015	561	44.4	21.7	44.4	8.0	20.5	4.6	0.7	42.9	45.8
Germany	2011	567	52.1	17.5	52.1	12.4	14.6	3.2	0.2	46.6	57.1
	2015	568	51.4	16.8	51.4	11.0	16.4	4.3	0.2	47.7	54.8
Hong Kong SAR	2011	562	75.1	11.6	75.1	5.6	7.3	0.5	0.0	73.9	76.0
	2015	514	75.6	13.6	75.6	6.1	4.3	0.5	0.0	70.1	80.1
Hungary	2011	750	45.2	22.8	45.2	9.3	20.3	1.8	0.6	44.8	45.6
	2015	713	51.7	19.2	51.7	10.6	16.6	1.6	0.3	49.3	54.0
Iran, Islamic Rep. of	2011	818	35.3	17.1	35.3	15.4	25.9	5.7	0.8	33.6	37.0
	2015	547	33.7	17.5	33.7	18.3	21.9	8.0	0.6	33.2	34.3
Ireland	2011	663	45.4	18.2	45.4	15.3	20.0	1.1	0.0	48.8	42.1
	2015	622	55.5	15.5	55.5	12.9	14.9	1.2	0.0	59.0	52.5
Italy	2011	599	42.8	21.3	42.8	11.4	19.4	5.0	0.1	41.6	44.1
	2015	613	42.0	22.2	42.0	12.3	18.4	4.6	0.5	38.0	45.6
Japan	2011	624	70.0	14.0	70.0	8.2	7.4	0.4	0.0	71.6	68.6
	2015	621	67.3	16.5	67.3	8.1	7.1	1.1	0.0	66.3	68.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_06 (M041048): Number / Reasoning      Type: MC      Key: B  
Label: Height of wall made of 4 rows

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	69.2	13.0	69.2	3.9	11.4	2.3	0.3	69.1	69.2
	2015	667	73.6	8.7	73.6	6.5	10.1	0.9	0.2	70.8	76.3
Korea, Rep. of	2011	613	79.4	9.1	79.4	3.6	7.5	0.3	0.0	73.5	85.3
	2015	667	76.1	10.3	76.1	8.4	4.6	0.5	0.0	72.2	80.0
Kuwait	2011	587	28.1	18.5	28.1	19.2	24.3	9.1	0.9	26.9	29.6
	2015	505	30.5	22.8	30.5	16.3	18.9	9.1	2.5	28.0	33.1
Lithuania	2011	657	62.7	17.8	62.7	7.8	8.9	2.6	0.2	62.5	62.9
	2015	655	57.0	23.4	57.0	5.2	10.3	4.1	0.0	56.9	57.1
Morocco	2011	1088	35.2	17.6	35.2	15.4	23.0	6.9	2.0	37.7	32.4
	2015	720	40.3	14.6	40.3	14.6	23.2	6.7	0.6	35.2	45.5
Netherlands	2011	459	58.3	17.2	58.3	12.3	11.5	0.6	0.0	55.8	61.6
	2015	639	55.4	16.2	55.4	15.1	10.0	2.6	0.7	48.9	62.0
New Zealand	2011	800	43.1	23.9	43.1	13.2	19.0	0.8	0.0	40.5	45.8
	2015	913	51.5	18.7	51.5	12.9	14.8	0.9	1.2	51.5	51.5
Northern Ireland	2011	499	54.6	20.3	54.6	10.4	12.8	1.9	0.0	51.4	57.5
	2015	438	56.8	24.5	56.8	6.4	12.0	0.2	0.0	49.8	64.1
Oman	2011	1484	30.2	20.1	30.2	15.1	30.5	3.4	0.8	28.4	31.7
	2015	1300	35.3	20.4	35.3	17.3	23.8	3.0	0.2	33.3	37.3
Portugal	2011	592	46.5	18.1	46.5	16.3	16.6	2.1	0.4	44.3	48.3
	2015	674	46.5	21.4	46.5	14.0	15.9	2.2	0.0	44.0	49.2
Qatar	2011	585	35.7	21.4	35.7	16.6	23.4	2.5	0.4	35.5	35.9
	2015	741	38.0	21.0	38.0	15.2	20.1	4.7	1.0	33.1	42.9
Russian Federation	2011	644	69.0	15.5	69.0	6.9	7.7	0.9	0.0	69.3	68.8
	2015	702	69.9	13.1	69.9	6.7	7.8	2.2	0.3	67.7	72.1
Saudi Arabia	2011	663	39.2	16.7	39.2	17.2	24.2	2.1	0.6	32.8	46.0
	2015	617	33.5	22.5	33.5	19.7	21.4	1.8	1.2	30.0	36.8
Serbia	2011	631	61.1	20.9	61.1	3.9	10.6	3.6	0.0	58.8	63.0
	2015	566	57.3	22.3	57.3	5.8	11.2	3.2	0.2	56.4	58.2
Singapore	2011	915	76.9	10.3	76.9	6.6	5.8	0.5	0.0	76.4	77.3
	2015	935	80.9	8.6	80.9	5.2	4.4	0.8	0.0	81.9	79.9
Slovak Republic	2011	814	47.0	23.3	47.0	9.1	17.6	3.0	0.0	41.3	52.1
	2015	828	48.9	17.5	48.9	10.9	20.6	1.9	0.2	42.4	55.2
Slovenia	2011	643	42.2	18.9	42.2	11.9	23.3	3.5	0.2	35.7	48.6
	2015	645	36.5	19.4	36.5	12.8	26.5	4.9	0.0	31.1	42.0
Spain	2011	602	34.4	19.1	34.4	12.4	27.1	6.5	0.5	31.8	36.9
	2015	1091	43.5	18.4	43.5	14.2	20.1	3.6	0.2	40.6	46.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_06 (M041048): Number / Reasoning      Type: MC      Key: B  
Label: Height of wall made of 4 rows

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	47.6	13.3	47.6	18.7	16.4	3.7	0.4	43.9	50.7
	2015	575	48.4	13.9	48.4	12.3	16.7	8.4	0.4	44.0	52.3
Turkey	2011	1069	43.3	24.0	43.3	9.9	19.5	3.2	0.2	42.1	44.3
	2015	924	46.1	20.7	46.1	13.0	16.4	3.8	0.0	41.0	51.1
United Arab Emirates	2011	2092	39.2	21.2	39.2	12.5	24.2	2.6	0.4	38.2	40.2
	2015	3032	39.4	20.3	39.4	13.0	23.8	3.2	0.3	38.7	40.0
United States	2011	1776	47.4	24.1	47.4	10.7	15.7	2.1	0.1	44.3	50.7
	2015	1430	47.8	24.2	47.8	11.0	15.3	1.4	0.4	44.7	51.0
-----											
International Avg (n=40)	2011	30291	49.8	18.7	49.8	11.6	16.7	2.8	0.3	47.4	52.2
	2015	30676	51.0	18.8	51.0	11.2	15.6	3.1	0.4	47.9	54.0
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Ontario, Canada	2011	654	42.2	25.1	42.2	13.4	18.4	0.8	0.2	38.4	45.8
	2015	663	43.7	23.3	43.7	14.5	16.6	1.3	0.7	35.4	51.9
Quebec, Canada	2011	609	38.7	24.0	38.7	14.9	19.8	2.5	0.1	34.6	42.8
	2015	403	50.7	21.4	50.7	11.1	15.6	1.1	0.1	40.2	61.4
Norway (4)	2011	438	48.4	14.1	48.4	13.3	21.7	1.6	1.0	41.3	54.7
	2015	594	42.1	16.9	42.1	20.4	16.2	4.1	0.3	34.5	48.6
Abu Dhabi, UAE	2011	587	38.5	20.3	38.5	11.5	26.1	3.0	0.7	39.6	37.4
	2015	717	34.9	20.0	34.9	15.4	25.7	3.7	0.3	32.3	36.8
Dubai, UAE	2011	872	40.5	23.2	40.5	13.2	20.2	2.6	0.2	38.4	42.2
	2015	1063	49.8	21.0	49.8	10.8	15.9	2.4	0.2	49.0	50.6
Florida, US	2011	370	43.4	26.8	43.4	13.5	15.4	0.5	0.3	41.3	45.4
	2015	282	52.0	23.9	52.0	9.4	13.6	1.1	0.0	57.3	46.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_07 (M041169): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: Shape and its reflection

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	67.3	67.3	7.6	12.4	10.9	1.5	0.3	65.6	68.7
	2015	870	71.4	71.4	6.4	10.6	10.4	1.0	0.2	73.4	69.7
Bahrain	2011	572	35.2	35.2	14.6	20.6	26.1	2.4	1.2	30.7	39.7
	2015	594	53.1	53.1	10.6	13.5	20.8	2.0	0.1	55.8	50.3
Belgium (Flemish)	2011	681	68.8	68.8	6.6	12.9	9.2	2.4	0.0	69.2	68.4
	2015	766	70.8	70.8	8.4	9.1	10.4	1.0	0.4	71.8	69.8
Chile	2011	792	38.7	38.7	16.3	18.8	21.6	3.0	1.5	37.1	40.5
	2015	681	52.6	52.6	13.0	12.0	17.5	2.3	2.5	56.8	48.2
Chinese Taipei	2011	608	76.4	76.4	5.3	10.3	7.0	1.0	0.0	77.3	75.5
	2015	616	75.3	75.3	6.6	8.9	8.4	0.7	0.0	75.6	75.1
Croatia	2011	649	33.9	33.9	11.8	15.7	34.8	3.9	0.0	35.1	32.6
	2015	563	36.9	36.9	12.2	17.8	29.4	3.7	0.0	36.8	37.0
Czech Republic	2011	646	39.5	39.5	7.0	11.2	40.5	1.3	0.5	40.1	39.0
	2015	746	43.1	43.1	6.7	10.8	37.2	2.2	0.0	45.5	40.4
Denmark	2011	561	77.6	77.6	7.4	9.0	2.2	2.1	1.7	74.0	81.7
	2015	525	81.7	81.7	4.3	8.0	2.9	2.3	0.9	80.9	82.4
England	2011	496	70.3	70.3	9.1	8.2	9.6	2.8	0.0	68.9	71.7
	2015	574	72.8	72.8	10.0	7.2	7.7	2.4	0.0	71.0	74.5
Finland	2011	668	81.8	81.8	3.4	9.1	4.2	1.1	0.4	82.4	81.3
	2015	718	71.8	71.8	4.6	10.5	9.3	3.7	0.1	72.3	71.4
Georgia	2011	683	29.1	29.1	9.2	12.5	40.4	7.5	1.2	27.1	31.0
	2015	561	29.8	29.8	11.7	11.1	41.4	5.1	0.9	29.0	30.5
Germany	2011	567	71.2	71.2	9.6	10.0	6.9	2.1	0.2	72.6	70.0
	2015	568	67.5	67.5	8.4	12.5	6.7	4.7	0.2	69.3	65.8
Hong Kong SAR	2011	562	81.7	81.7	3.9	6.9	6.8	0.7	0.0	79.3	83.6
	2015	514	85.7	85.7	4.0	6.2	3.9	0.2	0.0	85.4	86.0
Hungary	2011	750	57.5	57.5	9.1	16.8	13.5	2.5	0.6	56.6	58.5
	2015	713	59.5	59.5	9.6	13.3	13.5	3.9	0.3	58.6	60.3
Iran, Islamic Rep. of	2011	818	29.1	29.1	18.3	21.6	23.3	6.6	1.1	32.2	26.1
	2015	547	31.2	31.2	12.8	21.3	24.4	9.5	0.9	32.3	29.9
Ireland	2011	663	64.9	64.9	7.7	13.1	13.0	1.3	0.0	62.8	67.1
	2015	622	65.5	65.5	8.5	11.7	13.9	0.5	0.0	62.0	68.5
Italy	2011	599	51.5	51.5	13.9	14.4	17.0	3.1	0.1	51.9	51.0
	2015	613	53.4	53.4	12.2	15.1	16.9	1.9	0.5	53.6	53.2
Japan	2011	624	82.4	82.4	3.6	7.0	5.2	1.8	0.0	84.8	80.3
	2015	621	80.3	80.3	5.9	6.1	4.8	2.7	0.2	81.0	79.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_07 (M041169): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: Shape and its reflection

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	43.0	43.0	9.6	17.7	25.9	3.5	0.3	40.0	45.8
	2015	667	62.5	62.5	7.4	12.1	17.1	0.6	0.3	61.7	63.3
Korea, Rep. of	2011	613	91.2	91.2	3.0	3.1	2.5	0.1	0.0	91.1	91.3
	2015	667	92.6	92.6	2.7	3.0	1.5	0.2	0.0	92.8	92.5
Kuwait	2011	587	27.9	27.9	22.0	13.9	24.7	10.4	1.1	28.8	26.7
	2015	505	27.4	27.4	19.9	16.3	22.9	10.0	3.4	29.7	24.9
Lithuania	2011	657	63.0	63.0	10.9	11.7	12.4	1.8	0.2	65.3	61.2
	2015	655	60.9	60.9	6.2	12.2	17.7	3.0	0.0	62.2	59.5
Morocco	2011	971	39.5	39.5	12.4	16.2	20.9	7.9	3.1	43.0	35.7
	2015	720	35.8	35.8	15.4	15.7	25.3	6.8	1.0	39.8	31.8
Netherlands	2011	459	74.2	74.2	6.4	11.3	7.6	0.5	0.0	79.7	68.1
	2015	639	71.2	71.2	8.3	9.7	8.2	1.9	0.7	69.1	73.6
New Zealand	2011	800	63.0	63.0	10.6	10.8	13.8	1.9	0.0	63.4	62.5
	2015	913	67.3	67.3	8.2	9.4	12.5	1.5	1.2	68.0	66.7
Northern Ireland	2011	499	68.5	68.5	9.1	10.9	10.5	1.0	0.0	71.7	65.8
	2015	443	74.7	74.7	7.8	9.2	7.1	1.1	0.0	73.8	75.5
Oman	2011	1484	31.5	31.5	16.3	22.2	24.6	4.6	0.9	31.5	31.4
	2015	1298	39.5	39.5	15.7	18.7	23.3	2.6	0.3	42.7	36.3
Portugal	2011	592	53.6	53.6	11.2	17.5	15.6	1.6	0.5	51.5	55.4
	2015	674	59.6	59.6	9.4	13.1	15.0	2.8	0.0	61.4	57.7
Qatar	2011	585	35.0	35.0	16.2	21.7	23.0	3.7	0.4	39.7	30.3
	2015	741	38.8	38.8	18.9	17.5	19.4	4.3	1.2	39.7	38.0
Russian Federation	2011	644	56.2	56.2	8.6	15.2	17.7	2.2	0.0	59.0	53.4
	2015	702	57.5	57.5	8.1	13.3	18.1	2.7	0.4	58.9	56.1
Saudi Arabia	2011	662	35.5	35.5	17.6	23.3	22.1	0.9	0.6	37.5	33.5
	2015	610	25.4	25.4	19.6	24.4	25.2	3.9	1.5	26.8	24.1
Serbia	2011	631	40.3	40.3	9.3	18.1	21.6	10.8	0.0	39.4	41.1
	2015	566	45.2	45.2	11.2	18.0	19.2	6.3	0.2	47.9	42.4
Singapore	2011	915	69.5	69.5	7.4	12.2	10.6	0.2	0.0	70.8	68.3
	2015	935	73.4	73.4	6.7	8.7	10.6	0.6	0.0	75.6	71.1
Slovak Republic	2011	814	56.5	56.5	10.2	13.8	17.2	2.3	0.0	58.1	55.0
	2015	828	58.9	58.9	8.3	16.7	14.2	1.6	0.3	60.0	57.9
Slovenia	2011	641	65.5	65.5	6.6	17.1	9.2	1.4	0.2	72.3	58.7
	2015	645	62.6	62.6	8.3	14.1	11.5	3.4	0.0	61.7	63.6
Spain	2011	602	48.0	48.0	12.2	17.8	14.7	6.7	0.6	49.2	46.7
	2015	1091	56.6	56.6	10.7	13.1	16.4	2.8	0.3	58.6	54.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M07\_07 (M041169): Geometric Shapes and Measures / Knowing Type: MC Key: A  
Label: Shape and its reflection

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	61.2	61.2	8.2	14.4	12.1	2.7	1.4	62.6	60.0
	2015	575	68.1	68.1	7.9	11.6	10.5	1.3	0.5	68.9	67.6
Turkey	2011	1069	57.7	57.7	10.6	12.9	17.8	0.8	0.2	56.4	59.0
	2015	924	65.4	65.4	8.9	12.1	13.3	0.2	0.0	66.9	63.9
United Arab Emirates	2011	2092	38.1	38.1	16.5	18.6	23.8	2.6	0.5	38.2	38.0
	2015	3032	47.4	47.4	15.0	13.5	20.2	3.5	0.4	48.8	46.1
United States	2011	1776	63.8	63.8	10.1	10.6	14.0	1.2	0.3	62.1	65.6
	2015	1430	61.8	61.8	8.6	13.8	13.8	1.4	0.6	58.8	65.0
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International Avg (n=40)	2011	30171	56.0	56.0	10.2	14.0	16.4	2.9	0.5	56.5	55.5
	2015	30672	58.9	58.9	9.7	12.5	15.6	2.8	0.5	59.6	58.1
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Ontario, Canada	2011	654	68.6	68.6	7.9	10.6	12.1	0.7	0.2	65.4	71.6
	2015	662	72.8	72.8	6.3	9.1	9.5	1.6	0.7	76.0	69.9
Quebec, Canada	2011	609	65.4	65.4	8.9	12.1	11.3	2.2	0.1	67.7	63.1
	2015	398	74.0	74.0	4.1	6.3	14.3	1.1	0.1	73.7	74.6
Norway (4)	2011	438	68.6	68.6	5.4	10.4	12.7	1.9	1.0	66.6	70.4
	2015	594	71.8	71.8	7.5	6.2	11.2	1.9	1.4	71.0	72.6
Abu Dhabi, UAE	2011	587	36.2	36.2	18.8	18.8	22.9	2.7	0.8	35.2	37.0
	2015	717	43.4	43.4	20.0	13.6	18.0	4.5	0.4	43.3	43.5
Dubai, UAE	2011	872	44.8	44.8	13.0	15.9	23.6	2.4	0.2	44.9	44.7
	2015	1063	62.5	62.5	10.5	10.6	14.8	1.3	0.2	65.6	59.3
Florida, US	2011	370	75.3	75.3	5.8	6.6	11.5	0.5	0.3	73.1	77.4
	2015	282	60.2	60.2	10.8	13.1	14.8	1.1	0.0	60.3	60.0
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_08 (M041333): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: How many cubes are in the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	49.4	3.4	11.2	49.4	34.5	1.3	0.3	49.0	49.7
	2015	870	59.0	2.8	10.6	59.0	26.4	1.0	0.2	57.7	60.2
Bahrain	2011	572	22.2	3.7	11.9	22.2	59.7	1.3	1.2	23.6	20.8
	2015	594	38.8	3.7	7.2	38.8	49.8	0.4	0.1	40.6	37.0
Belgium (Flemish)	2011	681	60.9	3.1	9.0	60.9	26.5	0.4	0.0	56.9	65.2
	2015	766	60.9	1.3	11.0	60.9	26.1	0.3	0.4	57.2	64.7
Chile	2011	792	15.7	5.3	9.7	15.7	65.7	2.0	1.6	17.2	14.1
	2015	681	28.0	5.1	11.0	28.0	51.8	1.6	2.5	25.7	30.5
Chinese Taipei	2011	608	84.3	2.9	2.1	84.3	10.3	0.5	0.0	82.6	85.8
	2015	616	74.7	3.3	4.8	74.7	17.0	0.2	0.0	74.8	74.7
Croatia	2011	649	20.6	4.3	10.0	20.6	64.0	1.0	0.0	20.1	21.2
	2015	563	22.2	3.9	14.3	22.2	58.9	0.6	0.2	16.3	28.5
Czech Republic	2011	646	44.1	3.5	13.4	44.1	37.2	1.4	0.5	40.5	47.1
	2015	746	46.5	2.2	15.8	46.5	34.3	1.2	0.0	45.0	48.4
Denmark	2011	561	49.5	3.0	15.3	49.5	29.0	1.4	1.7	44.2	55.5
	2015	525	53.5	4.9	12.6	53.5	25.9	2.2	0.9	52.6	54.2
England	2011	496	32.2	3.9	12.6	32.2	50.4	0.9	0.0	31.1	33.3
	2015	574	38.6	2.6	13.6	38.6	44.1	1.1	0.0	35.5	41.6
Finland	2011	668	51.7	1.2	8.7	51.7	36.9	1.1	0.4	46.6	56.4
	2015	718	46.1	1.8	11.6	46.1	39.0	1.3	0.1	47.1	45.1
Georgia	2011	672	19.1	8.6	5.7	19.1	63.2	2.2	1.1	20.8	17.4
	2015	561	22.6	13.1	8.5	22.6	51.6	3.2	1.0	19.6	25.3
Germany	2011	567	62.2	2.1	8.8	62.2	25.8	1.0	0.2	53.2	70.4
	2015	568	63.5	2.4	8.5	63.5	24.9	0.6	0.2	61.4	65.3
Hong Kong SAR	2011	562	59.4	5.6	10.7	59.4	24.1	0.1	0.0	55.0	62.9
	2015	514	63.0	5.0	9.9	63.0	21.9	0.2	0.0	53.7	70.5
Hungary	2011	750	36.1	5.0	12.5	36.1	44.8	1.0	0.6	34.4	38.0
	2015	713	50.8	4.8	10.9	50.8	33.0	0.3	0.3	46.3	55.0
Iran, Islamic Rep. of	2011	818	14.6	9.3	11.0	14.6	61.2	2.7	1.3	13.2	16.0
	2015	547	18.8	5.7	13.0	18.8	58.0	3.6	0.9	20.7	16.7
Ireland	2011	663	32.0	3.2	12.8	32.0	51.4	0.5	0.0	33.2	30.8
	2015	622	39.1	2.0	13.8	39.1	44.7	0.5	0.0	36.5	41.3
Italy	2011	599	21.0	5.7	8.6	21.0	63.1	1.4	0.1	18.8	23.4
	2015	613	25.0	5.1	10.5	25.0	57.3	1.5	0.5	19.9	29.4
Japan	2011	624	56.9	7.6	9.2	56.9	26.0	0.4	0.0	56.0	57.6
	2015	621	56.7	7.4	10.6	56.7	24.6	0.6	0.2	55.5	57.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_08 (M041333): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: How many cubes are in the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	27.9	8.0	5.5	27.9	56.7	1.4	0.4	23.3	32.2
	2015	667	45.1	4.1	7.0	45.1	43.4	0.1	0.3	43.2	46.8
Korea, Rep. of	2011	613	73.5	2.8	5.7	73.5	17.9	0.1	0.0	72.0	75.0
	2015	667	79.5	2.9	5.9	79.5	11.7	0.1	0.0	77.3	81.7
Kuwait	2011	589	11.8	12.6	9.0	11.8	60.7	4.6	1.3	12.8	10.4
	2015	505	15.1	9.7	5.8	15.1	62.8	3.2	3.4	15.9	14.3
Lithuania	2011	657	65.2	2.7	10.3	65.2	21.1	0.5	0.2	59.0	70.2
	2015	655	66.5	0.6	8.4	66.5	23.1	1.4	0.1	64.8	68.2
Morocco	2011	1094	21.7	12.2	7.9	21.7	53.0	2.1	3.1	20.1	23.5
	2015	719	23.0	5.7	13.0	23.0	54.2	3.1	1.0	20.1	25.8
Netherlands	2011	459	78.7	1.3	4.0	78.7	15.7	0.2	0.0	75.7	83.0
	2015	638	75.7	2.2	6.2	75.7	12.8	2.4	0.7	70.7	80.6
New Zealand	2011	800	34.0	4.2	12.7	34.0	48.1	1.0	0.0	34.1	33.9
	2015	913	44.6	5.1	11.9	44.6	36.5	0.7	1.2	40.2	48.6
Northern Ireland	2011	499	41.5	7.4	11.6	41.5	39.4	0.1	0.0	43.2	40.0
	2015	442	49.7	3.0	10.3	49.7	37.1	0.0	0.0	46.7	52.8
Oman	2011	1484	14.8	10.0	11.1	14.8	62.0	1.2	1.0	13.7	15.7
	2015	1302	24.2	9.0	12.6	24.2	52.6	1.1	0.5	23.2	25.2
Portugal	2011	592	69.6	2.1	6.8	69.6	19.5	1.5	0.6	62.1	75.6
	2015	674	49.7	3.3	9.7	49.7	36.0	1.3	0.0	47.2	52.4
Qatar	2011	585	11.5	8.5	9.1	11.5	69.3	1.2	0.4	10.3	12.7
	2015	741	16.5	6.2	8.2	16.5	66.4	1.2	1.3	13.2	19.8
Russian Federation	2011	644	46.3	4.1	11.0	46.3	37.7	0.8	0.0	42.2	50.5
	2015	702	59.4	2.8	10.8	59.4	25.8	0.8	0.4	54.1	64.6
Saudi Arabia	2011	662	27.2	4.6	11.8	27.2	55.3	0.4	0.8	28.5	25.7
	2015	617	33.3	6.8	9.1	33.3	48.7	0.6	1.5	33.9	32.6
Serbia	2011	631	33.2	7.6	10.0	33.2	47.0	2.2	0.1	29.4	36.3
	2015	566	42.1	5.5	9.3	42.1	40.8	2.1	0.2	39.9	44.4
Singapore	2011	915	46.5	4.5	10.8	46.5	38.2	0.0	0.0	45.3	47.7
	2015	935	49.3	3.9	10.2	49.3	36.2	0.4	0.0	49.8	48.8
Slovak Republic	2011	814	39.2	4.5	10.8	39.2	44.3	1.2	0.0	36.7	41.3
	2015	828	53.0	3.0	9.3	53.0	33.6	0.7	0.3	46.4	59.4
Slovenia	2011	645	35.8	2.9	10.6	35.8	48.5	1.9	0.2	36.6	35.1
	2015	645	42.9	4.8	9.8	42.9	41.1	1.4	0.0	39.0	46.8
Spain	2011	602	21.4	5.6	11.3	21.4	58.6	2.0	1.0	17.2	25.4
	2015	1091	25.9	3.9	10.1	25.9	57.4	2.4	0.3	25.2	26.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_08 (M041333): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: How many cubes are in the box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	46.9	2.8	13.5	46.9	34.1	1.3	1.4	41.1	51.9
	2015	575	49.3	4.7	13.0	49.3	31.7	0.7	0.5	51.3	47.6
Turkey	2011	1069	22.5	10.4	8.5	22.5	57.8	0.7	0.2	18.8	26.0
	2015	924	27.8	7.6	10.6	27.8	53.3	0.8	0.0	28.3	27.2
United Arab Emirates	2011	2092	16.2	6.5	7.9	16.2	67.4	1.5	0.6	15.1	17.1
	2015	3032	22.6	5.9	8.3	22.6	60.3	2.4	0.4	22.0	23.2
United States	2011	1776	42.2	4.2	9.5	42.2	43.0	0.8	0.3	38.9	45.9
	2015	1430	36.4	4.8	8.9	36.4	48.5	0.8	0.6	32.4	40.6
-----											
International Avg (n=40)	2011	30289	39.0	5.3	9.8	39.0	44.2	1.2	0.5	36.8	41.0
	2015	30680	43.5	4.6	10.2	43.5	40.1	1.2	0.5	41.3	45.6
-----											
Ontario, Canada	2011	654	33.0	4.4	10.3	33.0	51.7	0.5	0.2	31.8	34.3
	2015	663	35.3	3.3	11.5	35.3	47.9	0.8	1.0	32.1	38.6
Quebec, Canada	2011	609	56.7	2.4	9.6	56.7	30.9	0.4	0.1	49.7	63.6
	2015	403	48.5	2.4	11.1	48.5	37.6	0.3	0.1	46.9	50.2
Norway (4)	2011	438	40.4	3.6	11.7	40.4	42.6	0.7	1.0	42.3	38.7
	2015	594	48.6	3.7	12.5	48.6	32.2	1.7	1.4	47.9	49.1
Abu Dhabi, UAE	2011	587	16.1	7.3	7.2	16.1	66.5	1.8	1.0	14.2	18.0
	2015	717	18.6	7.9	11.0	18.6	60.0	2.1	0.4	19.2	18.2
Dubai, UAE	2011	872	19.8	5.2	7.0	19.8	66.1	1.6	0.3	18.0	21.2
	2015	1063	31.8	4.3	7.9	31.8	53.8	2.1	0.2	29.9	33.7
Florida, US	2011	370	37.4	6.1	8.1	37.4	47.1	0.8	0.6	35.7	38.9
	2015	282	34.5	5.5	10.7	34.5	49.4	0.0	0.0	35.7	33.3
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_09 (M041262): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	53.2	16.6	53.2	26.1	3.4	0.4	0.3	55.2	51.4
	2015	870	50.7	21.2	50.7	22.2	3.5	2.1	0.2	45.7	55.2
Bahrain	2011	572	32.5	25.0	32.5	32.2	7.3	1.8	1.2	32.0	33.1
	2015	594	42.7	14.0	42.7	33.9	8.1	1.3	0.1	45.8	39.5
Belgium (Flemish)	2011	681	51.1	20.6	51.1	23.4	4.4	0.4	0.0	51.3	50.9
	2015	766	55.9	19.7	55.9	17.9	4.1	2.1	0.4	53.8	58.0
Chile	2011	792	25.5	34.0	25.5	30.2	7.0	1.6	1.6	25.5	25.6
	2015	681	19.8	33.9	19.8	31.1	8.9	3.4	2.9	17.1	22.6
Chinese Taipei	2011	608	70.1	4.0	70.1	21.7	4.0	0.1	0.0	72.7	67.9
	2015	616	78.8	2.7	78.8	13.2	4.5	0.8	0.0	80.0	77.7
Croatia	2011	649	21.1	27.7	21.1	37.8	6.9	6.6	0.0	19.6	22.5
	2015	563	19.8	30.3	19.8	35.3	8.9	5.5	0.2	17.2	22.5
Czech Republic	2011	646	31.4	27.3	31.4	31.7	3.4	5.8	0.5	35.4	28.0
	2015	746	31.8	28.8	31.8	31.0	4.9	3.3	0.2	32.7	30.6
Denmark	2011	561	70.6	7.3	70.6	14.5	2.5	3.5	1.7	74.2	66.4
	2015	525	69.8	8.2	69.8	14.8	4.4	1.7	1.1	70.5	69.3
England	2011	496	36.4	17.1	36.4	33.1	12.0	1.3	0.1	35.3	37.5
	2015	574	38.0	18.0	38.0	31.8	9.6	2.5	0.0	35.8	40.2
Finland	2011	668	34.3	28.0	34.3	30.7	3.6	3.0	0.4	35.6	33.1
	2015	718	33.7	26.5	33.7	30.3	5.6	3.5	0.4	36.8	30.8
Georgia	2011	683	25.6	19.0	25.6	34.1	12.7	7.0	1.5	28.8	22.6
	2015	561	28.8	28.7	28.8	26.7	9.5	5.1	1.2	26.6	30.8
Germany	2011	567	45.6	18.1	45.6	28.3	4.2	3.6	0.2	45.4	45.8
	2015	568	42.9	22.7	42.9	26.9	4.5	2.8	0.2	47.3	38.9
Hong Kong SAR	2011	562	82.6	2.3	82.6	10.9	3.7	0.5	0.0	86.1	79.8
	2015	514	84.4	2.2	84.4	8.9	4.2	0.3	0.0	85.8	83.2
Hungary	2011	750	34.2	17.8	34.2	33.4	12.1	1.9	0.6	33.3	35.3
	2015	713	46.8	15.6	46.8	27.2	8.1	2.1	0.3	45.8	47.8
Iran, Islamic Rep. of	2011	818	38.2	15.9	38.2	26.0	12.8	5.5	1.6	35.5	40.9
	2015	547	31.3	21.9	31.3	31.2	7.7	6.7	1.2	31.6	30.9
Ireland	2011	663	43.0	18.7	43.0	29.8	7.7	0.7	0.1	42.1	44.0
	2015	622	46.4	19.0	46.4	26.0	7.8	0.8	0.0	50.0	43.3
Italy	2011	599	28.5	21.4	28.5	37.7	7.6	4.7	0.1	26.1	31.1
	2015	613	27.8	24.7	27.8	32.1	8.8	5.9	0.7	30.5	25.5
Japan	2011	624	67.3	13.8	67.3	12.7	5.8	0.3	0.1	66.4	68.1
	2015	621	62.7	13.8	62.7	14.3	8.5	0.5	0.2	64.3	61.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_09 (M041262): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	26.5	26.2	26.5	27.1	17.2	2.5	0.4	23.4	29.4
	2015	667	43.5	20.6	43.5	24.0	10.9	0.7	0.3	42.8	44.1
Korea, Rep. of	2011	613	32.6	5.1	32.6	32.7	29.0	0.6	0.0	30.9	34.2
	2015	667	14.2	31.6	14.2	47.7	6.2	0.2	0.0	13.8	14.6
Kuwait	2011	587	21.0	28.2	21.0	34.1	8.7	6.7	1.3	15.8	27.6
	2015	505	18.6	26.5	18.6	33.3	9.3	8.9	3.4	17.4	19.9
Lithuania	2011	657	48.5	14.1	48.5	21.1	14.1	2.0	0.2	46.3	50.3
	2015	655	32.1	19.1	32.1	24.1	21.6	3.1	0.1	29.2	35.0
Morocco	2011	1097	25.7	25.4	25.7	27.5	13.9	3.8	3.6	26.2	25.1
	2015	721	30.1	27.6	30.1	26.8	10.3	3.2	1.9	28.3	31.9
Netherlands	2011	459	60.3	14.5	60.3	19.8	4.4	0.7	0.2	58.4	63.5
	2015	638	57.4	8.4	57.4	25.8	6.1	1.3	0.9	59.4	55.3
New Zealand	2011	800	25.0	37.8	25.0	28.3	8.0	0.9	0.0	25.0	25.1
	2015	913	28.4	36.9	28.4	27.1	5.7	0.7	1.2	28.2	28.6
Northern Ireland	2011	499	64.2	10.6	64.2	18.0	5.7	1.5	0.0	67.5	61.5
	2015	436	62.5	11.4	62.5	18.3	7.7	0.0	0.0	61.2	63.9
Oman	2011	1484	34.2	15.4	34.2	37.5	9.5	2.2	1.1	38.4	30.5
	2015	1298	41.4	18.1	41.4	31.2	6.7	2.1	0.5	42.7	40.2
Portugal	2011	592	41.9	8.8	41.9	37.3	10.3	1.1	0.6	42.3	41.6
	2015	674	39.8	13.5	39.8	38.4	6.7	1.6	0.0	37.7	42.0
Qatar	2011	585	24.3	27.4	24.3	35.0	9.8	2.7	0.8	23.3	25.3
	2015	741	33.8	20.7	33.8	34.2	7.2	2.8	1.3	34.3	33.3
Russian Federation	2011	644	48.7	17.8	48.7	21.4	9.7	2.2	0.2	51.2	46.2
	2015	702	53.6	14.3	53.6	22.4	7.5	1.8	0.4	56.7	50.6
Saudi Arabia	2011	663	31.9	21.1	31.9	33.1	12.3	0.9	0.8	29.6	34.3
	2015	616	31.6	22.5	31.6	31.1	10.4	3.0	1.5	28.1	34.9
Serbia	2011	631	42.0	13.7	42.0	33.4	6.7	3.9	0.2	39.6	44.1
	2015	566	37.9	15.9	37.9	32.8	7.2	5.9	0.2	37.5	38.4
Singapore	2011	915	45.2	6.4	45.2	26.0	22.2	0.3	0.0	47.3	43.1
	2015	935	48.6	7.0	48.6	23.1	20.8	0.5	0.0	52.1	45.1
Slovak Republic	2011	814	31.2	25.3	31.2	34.3	6.6	2.5	0.0	28.5	33.6
	2015	828	24.3	33.6	24.3	30.9	6.3	4.6	0.3	21.2	27.2
Slovenia	2011	644	26.6	33.2	26.6	31.5	4.5	3.9	0.3	25.9	27.4
	2015	645	29.3	40.2	29.3	24.5	4.1	1.9	0.1	28.1	30.5
Spain	2011	602	22.4	36.9	22.4	26.6	7.8	5.2	1.0	20.7	24.1
	2015	1091	30.3	33.0	30.3	26.8	5.7	3.8	0.4	29.7	30.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_09 (M041262): Geometric Shapes and Measures / Applying      Type: MC      Key: B  
Label: What is the area of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	36.0	22.7	36.0	31.8	4.9	3.1	1.5	35.8	36.3
	2015	575	37.4	18.7	37.4	35.6	5.7	2.1	0.5	39.7	35.5
Turkey	2011	1069	33.3	21.3	33.3	35.1	8.8	1.3	0.2	33.4	33.3
	2015	924	37.9	20.8	37.9	31.6	8.3	1.4	0.0	39.2	36.7
United Arab Emirates	2011	2091	29.0	22.9	29.0	37.5	8.2	1.7	0.6	26.2	31.8
	2015	3032	31.4	24.0	31.4	33.6	7.4	3.2	0.5	31.5	31.3
United States	2011	1776	46.9	14.7	46.9	28.6	7.6	1.9	0.3	48.2	45.5
	2015	1430	35.6	22.5	35.6	31.1	9.0	1.2	0.6	36.5	34.7
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International Avg (n=40)	2011	30300	39.7	19.6	39.7	28.8	8.8	2.5	0.6	39.6	39.9
	2015	30671	40.3	21.0	40.3	27.7	7.8	2.6	0.6	40.3	40.3
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Ontario, Canada	2011	654	54.1	18.5	54.1	22.5	2.8	1.9	0.2	55.3	53.0
	2015	664	51.0	19.3	51.0	22.0	5.7	0.9	1.1	53.3	48.8
Quebec, Canada	2011	609	55.7	19.9	55.7	19.4	3.8	1.1	0.1	58.5	53.0
	2015	403	56.5	10.7	56.5	30.3	1.8	0.5	0.1	57.4	55.7
Norway (4)	2011	438	46.4	15.0	46.4	28.7	6.3	2.3	1.2	44.4	48.2
	2015	594	55.8	13.2	55.8	22.9	4.3	2.4	1.4	54.3	57.1
Abu Dhabi, UAE	2011	587	28.8	22.0	28.8	37.6	8.8	1.7	1.0	27.8	29.7
	2015	717	24.3	27.0	24.3	35.9	8.9	3.4	0.4	23.9	24.7
Dubai, UAE	2011	871	32.1	23.9	32.1	35.5	6.9	1.3	0.3	25.7	37.5
	2015	1063	41.3	19.2	41.3	31.7	5.4	2.3	0.2	43.0	39.6
Florida, US	2011	370	75.3	8.4	75.3	11.5	3.4	0.8	0.6	73.0	77.5
	2015	282	28.8	21.6	28.8	37.8	9.6	2.2	0.0	31.9	25.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_10 (M041267): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw line with given specification

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	32.3	5.3	9.2	43.6	9.2	0.4	32.3	32.5	32.2
	2015	870	21.5	5.4	7.7	57.4	7.8	0.2	21.5	20.5	22.3
Bahrain	2011	572	13.0	4.4	8.7	58.9	13.7	1.3	13.0	14.4	11.7
	2015	594	17.1	1.5	11.6	56.7	13.0	0.1	17.1	17.7	16.4
Belgium (Flemish)	2011	681	59.8	5.7	15.0	17.5	2.0	0.0	59.8	53.0	67.1
	2015	766	57.8	5.3	16.8	17.3	2.4	0.5	57.8	56.8	58.8
Chile	2011	792	17.3	4.9	8.8	50.3	17.1	1.7	17.3	17.2	17.3
	2015	681	20.0	3.4	10.9	44.0	18.4	3.2	20.0	23.2	16.8
Chinese Taipei	2011	608	57.4	8.1	12.5	19.1	2.8	0.0	57.4	56.6	58.1
	2015	616	64.8	2.0	20.2	11.1	2.0	0.0	64.8	62.8	66.7
Croatia	2011	649	44.2	6.6	5.1	29.7	14.0	0.3	44.2	40.6	47.7
	2015	563	46.9	6.6	13.5	20.7	11.9	0.3	46.9	47.1	46.7
Czech Republic	2011	646	42.7	5.4	8.5	28.3	14.3	0.7	42.7	40.9	44.3
	2015	746	35.9	6.0	9.8	32.2	15.7	0.4	35.9	37.0	34.6
Denmark	2011	561	53.3	2.3	7.9	25.3	9.5	1.8	53.3	50.5	56.5
	2015	525	50.6	4.6	5.0	28.8	9.5	1.5	50.6	48.3	52.6
England	2011	496	29.5	5.8	5.3	47.9	11.1	0.4	29.5	29.0	30.0
	2015	574	38.8	3.9	6.7	43.8	6.4	0.3	38.8	33.1	44.4
Finland	2011	668	38.3	8.5	7.4	36.6	8.8	0.4	38.3	38.1	38.5
	2015	718	33.9	12.6	10.7	34.6	7.8	0.4	33.9	38.4	29.8
Georgia	2011	683	16.1	8.1	1.2	36.4	36.5	1.7	16.1	17.0	15.3
	2015	561	14.5	5.4	2.6	44.5	31.7	1.3	14.5	16.9	12.3
Germany	2011	567	27.2	16.0	8.6	33.6	14.2	0.3	27.2	24.5	29.8
	2015	568	18.6	12.1	6.6	50.4	12.3	0.2	18.6	19.3	17.9
Hong Kong SAR	2011	562	55.1	3.4	22.3	15.7	3.6	0.0	55.1	54.6	55.4
	2015	514	59.1	0.5	21.1	17.4	2.0	0.0	59.1	55.6	61.9
Hungary	2011	750	30.5	16.2	6.7	39.4	6.1	1.2	30.5	33.0	27.6
	2015	713	35.2	14.5	4.2	39.5	6.2	0.5	35.2	33.4	36.9
Iran, Islamic Rep. of	2011	818	57.6	0.7	6.4	22.9	10.1	2.3	57.6	58.1	57.1
	2015	547	37.5	4.2	8.6	27.4	20.8	1.6	37.5	39.1	35.7
Ireland	2011	663	30.9	5.3	8.0	48.6	7.0	0.1	30.9	34.5	27.3
	2015	622	28.0	5.9	9.7	53.1	3.2	0.1	28.0	25.4	30.2
Italy	2011	599	33.6	13.5	4.0	36.0	12.5	0.4	33.6	34.3	32.9
	2015	612	26.6	15.8	5.6	36.8	14.6	0.7	26.6	26.7	26.5
Japan	2011	624	52.7	1.7	33.9	10.4	1.2	0.1	52.7	49.9	55.1
	2015	621	51.9	0.8	34.9	9.7	2.6	0.2	51.9	54.5	49.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M07\_10 (M041267): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw line with given specification

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	47.7	3.2	7.5	25.0	16.0	0.6	47.7	47.3	48.2
	2015	667	38.3	1.7	2.9	46.7	10.1	0.3	38.3	38.1	38.5
Korea, Rep. of	2011	613	61.9	2.5	25.4	8.7	1.3	0.0	61.9	57.6	66.3
	2015	667	66.9	1.0	21.9	8.6	1.6	0.0	66.9	62.6	71.1
Kuwait	2011	590	7.4	2.8	2.8	51.6	33.4	1.9	7.4	8.2	6.5
	2015	505	9.5	4.7	3.8	33.7	43.4	4.8	9.5	11.0	7.9
Lithuania	2011	657	27.3	23.9	2.0	36.2	10.3	0.2	27.3	23.0	30.8
	2015	655	21.8	22.1	2.4	41.4	12.2	0.1	21.8	21.8	21.8
Morocco	2011	1131	13.2	1.9	7.6	35.6	37.9	3.9	13.2	13.0	13.4
	2015	721	9.6	13.4	2.3	45.4	26.4	2.9	9.6	10.3	8.8
Netherlands	2011	459	56.7	7.2	2.0	30.0	3.9	0.2	56.7	53.3	61.8
	2015	638	51.6	6.6	7.0	31.1	2.8	1.0	51.6	53.4	49.7
New Zealand	2011	800	29.6	4.8	3.6	57.4	4.4	0.3	29.6	28.9	30.3
	2015	913	31.4	4.9	5.1	52.9	4.6	1.2	31.4	30.3	32.4
Northern Ireland	2011	499	29.4	3.0	4.0	53.6	10.0	0.0	29.4	28.5	30.1
	2015	444	34.9	2.6	7.6	48.2	6.8	0.0	34.9	36.4	33.3
Oman	2011	1484	20.4	3.0	2.7	47.4	25.2	1.2	20.4	25.6	15.9
	2015	1302	27.6	4.9	6.8	37.0	23.1	0.7	27.6	27.5	27.7
Portugal	2011	592	33.0	8.0	6.5	45.9	6.0	0.7	33.0	36.6	30.0
	2015	674	36.7	6.8	11.7	38.8	5.9	0.0	36.7	36.7	36.7
Qatar	2011	585	15.1	2.1	4.5	59.6	17.8	0.9	15.1	16.6	13.6
	2015	741	21.2	2.2	8.4	47.0	19.6	1.5	21.2	20.7	21.6
Russian Federation	2011	645	39.7	8.6	7.3	34.7	9.5	0.2	39.7	41.3	38.1
	2015	702	46.6	7.6	11.1	26.4	7.7	0.5	46.6	44.3	48.9
Saudi Arabia	2011	663	20.7	3.6	0.7	60.9	13.3	0.8	20.7	19.7	21.8
	2015	618	25.0	3.6	3.6	39.8	26.5	1.5	25.0	29.3	20.8
Serbia	2011	631	44.3	6.9	5.1	29.2	14.0	0.5	44.3	44.4	44.2
	2015	566	42.8	6.0	2.9	34.3	13.5	0.5	42.8	39.3	46.4
Singapore	2011	915	52.2	2.4	31.2	12.7	1.4	0.1	52.2	51.7	52.6
	2015	935	50.8	2.1	29.0	16.3	1.7	0.0	50.8	48.9	52.9
Slovak Republic	2011	814	49.0	2.3	8.3	31.3	9.0	0.2	49.0	46.5	51.2
	2015	828	28.4	3.7	4.9	45.6	17.0	0.4	28.4	24.1	32.4
Slovenia	2011	645	35.4	5.8	8.3	41.0	9.3	0.3	35.4	34.3	36.5
	2015	645	40.5	4.5	15.8	29.7	9.2	0.2	40.5	42.1	38.9
Spain	2011	602	24.4	3.7	8.4	44.7	17.4	1.5	24.4	21.9	26.8
	2015	1091	16.1	4.9	18.5	45.2	14.9	0.5	16.1	16.6	15.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_10 (M041267): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw line with given specification

COUNTRY	Year	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	31.4	2.8	6.6	42.2	15.5	1.5	31.4	28.0	34.3
	2015	575	30.3	3.5	11.7	40.0	14.0	0.5	30.3	31.1	29.1
Turkey	2011	1069	23.9	11.9	6.2	49.3	8.4	0.4	23.9	23.3	24.4
	2015	924	22.8	12.3	4.5	50.9	9.3	0.1	22.8	18.7	26.8
United Arab Emirates	2011	2091	22.5	3.6	6.9	44.9	21.3	0.8	22.5	22.1	22.8
	2015	3032	20.9	2.6	6.2	49.7	20.0	0.7	20.9	22.1	19.8
United States	2011	1776	32.5	6.7	6.7	50.2	3.5	0.5	32.5	32.2	32.9
	2015	1430	35.2	5.2	11.1	44.0	3.8	0.7	35.2	35.9	34.5
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International Avg (n=40)	2011	30339	35.2	6.1	8.6	37.3	12.1	0.7	35.2	34.6	35.9
	2015	30684	34.2	5.9	10.1	37.0	12.1	0.7	34.2	33.9	34.4
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Ontario, Canada	2011	654	31.3	4.3	4.1	54.2	5.8	0.2	31.3	30.7	32.0
	2015	664	23.1	5.9	7.9	54.8	7.0	1.3	23.1	23.5	22.8
Quebec, Canada	2011	609	31.7	4.5	10.9	42.0	10.9	0.1	31.7	29.8	33.5
	2015	403	34.5	4.5	10.9	41.4	8.7	0.1	34.5	34.8	34.2
Norway (4)	2011	438	35.1	1.3	4.3	45.2	11.5	2.6	35.1	38.0	32.5
	2015	594	39.3	2.6	13.1	32.0	11.3	1.7	39.3	37.6	40.7
Abu Dhabi, UAE	2011	587	19.7	3.2	7.3	50.1	18.6	1.0	19.7	19.6	19.9
	2015	717	15.2	2.2	4.8	52.9	24.5	0.4	15.2	16.2	14.4
Dubai, UAE	2011	871	21.7	4.4	7.4	42.8	23.2	0.4	21.7	21.9	21.6
	2015	1063	28.6	3.8	9.1	46.1	12.1	0.3	28.6	29.4	27.7
Florida, US	2011	370	26.7	7.7	4.8	55.6	4.3	0.8	26.7	27.3	26.2
	2015	282	30.5	6.8	13.3	45.9	3.1	0.3	30.5	27.9	33.0
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
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M07\_11 (M041177): Data Display / Applying Type: MC Key: C  
Label: How many years older is Juan

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	72.6	7.0	6.6	72.6	12.3	1.1	0.4	71.5	73.5
	2015	870	76.4	7.9	5.1	76.4	8.6	1.7	0.2	69.9	82.2
Bahrain	2011	572	47.0	12.2	17.2	47.0	21.2	1.0	1.4	46.2	47.8
	2015	594	57.4	7.0	16.4	57.4	18.7	0.2	0.2	58.9	55.9
Belgium (Flemish)	2011	0	.	.	.	.	.	.	.	.	.
	2015	766	84.5	6.4	4.8	84.5	3.0	0.8	0.5	85.1	83.9
Chile	2011	792	61.2	10.9	7.9	61.2	16.1	1.5	2.3	62.2	60.2
	2015	681	58.1	10.7	8.4	58.1	18.0	1.3	3.5	52.4	63.9
Chinese Taipei	2011	608	91.7	1.4	3.4	91.7	3.4	0.1	0.0	91.9	91.5
	2015	616	87.6	3.8	4.6	87.6	3.9	0.1	0.0	87.2	87.9
Croatia	2011	649	71.8	9.6	8.2	71.8	7.7	2.4	0.3	68.1	75.4
	2015	563	28.5	7.5	55.4	28.5	8.2	0.1	0.3	29.6	27.2
Czech Republic	2011	646	82.1	5.1	4.8	82.1	5.1	2.2	0.7	81.2	82.7
	2015	746	84.7	5.2	4.2	84.7	5.0	0.5	0.4	82.3	87.5
Denmark	2011	0	.	.	.	.	.	.	.	.	.
	2015	525	30.0	7.3	56.3	30.0	2.8	1.3	2.3	32.0	28.2
England	2011	496	80.5	5.3	5.0	80.5	7.1	1.4	0.6	80.7	80.4
	2015	574	79.2	4.4	5.6	79.2	9.2	1.1	0.5	77.8	80.5
Finland	2011	668	87.2	4.4	2.7	87.2	4.1	1.1	0.5	87.0	87.4
	2015	718	82.3	5.0	4.5	82.3	6.2	1.6	0.4	86.2	78.5
Georgia	2011	672	66.6	10.2	7.5	66.6	12.3	1.2	2.1	68.4	64.9
	2015	561	27.1	11.1	47.1	27.1	11.0	2.4	1.3	22.4	31.3
Germany	2011	567	79.8	5.3	5.3	79.8	8.1	1.0	0.6	74.4	84.8
	2015	568	82.6	4.4	5.5	82.6	6.4	0.9	0.3	82.5	82.7
Hong Kong SAR	2011	562	88.6	3.0	4.6	88.6	3.8	0.0	0.0	90.6	87.0
	2015	514	92.1	2.5	3.1	92.1	2.1	0.2	0.0	88.6	94.9
Hungary	2011	750	78.5	5.4	6.0	78.5	7.4	1.5	1.2	77.9	79.1
	2015	713	77.1	5.1	8.5	77.1	7.4	1.4	0.5	76.3	77.9
Iran, Islamic Rep. of	2011	817	45.4	18.7	12.9	45.4	18.1	2.3	2.6	42.2	48.6
	2015	547	50.0	10.8	10.1	50.0	24.0	3.4	1.8	42.4	58.2
Ireland	2011	663	79.0	7.9	4.9	79.0	7.4	0.7	0.1	80.6	77.5
	2015	622	86.1	3.5	3.5	86.1	5.7	0.4	0.9	84.9	87.0
Italy	2011	599	69.3	8.3	7.2	69.3	12.9	1.7	0.7	66.9	71.9
	2015	613	35.7	11.1	39.0	35.7	11.9	1.6	0.7	34.1	37.2
Japan	2011	624	82.3	9.8	3.8	82.3	3.8	0.1	0.1	80.3	84.0
	2015	621	78.5	10.9	6.8	78.5	3.2	0.3	0.3	76.9	79.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_11 (M041177): Data Display / Applying Type: MC Key: C  
Label: How many years older is Juan

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	66.9	11.1	8.5	66.9	11.9	0.8	0.8	66.7	67.0
	2015	667	80.8	5.0	5.7	80.8	8.0	0.1	0.3	79.4	82.1
Korea, Rep. of	2011	613	91.3	2.1	3.3	91.3	2.6	0.6	0.0	93.4	89.2
	2015	667	93.2	2.3	1.8	93.2	2.6	0.1	0.0	94.4	91.9
Kuwait	2011	589	26.4	17.2	18.3	26.4	28.8	7.1	2.3	25.2	27.8
	2015	505	34.2	14.1	15.3	34.2	25.1	5.3	5.9	30.0	38.8
Lithuania	2011	657	82.2	6.8	6.3	82.2	4.1	0.3	0.3	76.8	86.5
	2015	655	82.8	7.8	3.5	82.8	5.1	0.6	0.2	80.2	85.4
Morocco	2011	1069	31.5	17.2	17.8	31.5	24.7	4.3	4.5	29.0	34.3
	2015	720	37.3	16.1	17.2	37.3	22.4	3.5	3.4	33.1	41.4
Netherlands	2011	459	82.4	5.6	7.5	82.4	3.8	0.5	0.2	78.1	88.2
	2015	639	37.6	6.8	50.3	37.6	3.4	0.9	1.0	38.9	36.4
New Zealand	2011	800	64.2	13.6	9.0	64.2	11.5	1.3	0.3	64.7	63.8
	2015	913	67.8	11.1	8.7	67.8	9.5	1.6	1.2	66.4	69.1
Northern Ireland	2011	499	87.9	3.5	4.6	87.9	3.4	0.6	0.0	86.9	88.7
	2015	438	87.8	3.2	4.2	87.8	4.8	0.0	0.0	88.4	87.3
Oman	2011	1484	38.9	14.4	17.7	38.9	24.8	2.9	1.3	38.1	39.6
	2015	1301	44.8	15.1	17.4	44.8	20.2	1.6	0.9	44.1	45.5
Portugal	2011	592	79.3	7.4	3.0	79.3	8.7	0.9	0.7	78.7	79.8
	2015	674	79.4	8.5	4.1	79.4	7.9	0.0	0.1	78.8	79.9
Qatar	2011	585	42.5	14.8	19.4	42.5	20.6	1.7	1.0	40.4	44.5
	2015	741	46.5	12.4	17.2	46.5	20.2	1.8	2.1	42.3	50.6
Russian Federation	2011	645	79.8	6.9	4.9	79.8	8.3	0.0	0.2	78.9	80.8
	2015	702	87.7	3.5	4.4	87.7	3.6	0.3	0.5	89.8	85.6
Saudi Arabia	2011	663	44.4	12.4	17.0	44.4	24.7	0.3	1.3	40.3	48.8
	2015	614	35.6	12.5	12.1	35.6	34.9	2.7	2.1	40.8	30.6
Serbia	2011	631	75.7	5.7	6.4	75.7	9.2	1.9	1.2	75.0	76.3
	2015	566	82.0	4.5	3.7	82.0	8.1	1.1	0.6	83.0	80.9
Singapore	2011	915	88.4	2.1	5.0	88.4	4.1	0.2	0.1	89.3	87.6
	2015	935	90.7	1.3	4.4	90.7	3.2	0.3	0.0	91.7	89.7
Slovak Republic	2011	814	74.2	6.0	9.8	74.2	8.7	1.1	0.2	74.1	74.2
	2015	828	36.0	6.6	48.0	36.0	8.3	0.6	0.5	37.1	34.9
Slovenia	2011	645	79.6	6.7	4.6	79.6	7.5	1.3	0.4	78.6	80.7
	2015	645	79.5	7.4	7.3	79.5	5.1	0.5	0.2	76.4	82.7
Spain	2011	602	35.4	9.6	35.0	35.4	15.3	2.9	1.8	31.1	39.5
	2015	1091	74.5	6.1	7.3	74.5	10.3	1.3	0.5	72.1	76.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_11 (M041177): Data Display / Applying Type: MC Key: C  
Label: How many years older is Juan

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	82.9	4.9	5.0	82.9	4.8	0.7	1.7	80.3	85.1
	2015	575	82.0	5.7	4.5	82.0	5.0	1.8	1.0	82.1	81.7
Turkey	2011	1069	67.5	7.7	8.4	67.5	14.8	0.8	0.7	63.9	71.0
	2015	924	37.2	10.7	42.1	37.2	9.8	0.1	0.1	36.5	37.9
United Arab Emirates	2011	2092	43.3	15.5	14.6	43.3	24.1	1.7	0.9	39.0	47.3
	2015	3032	46.7	15.0	13.8	46.7	21.9	1.7	0.8	46.1	47.3
United States	2011	1776	80.5	4.9	4.2	80.5	8.2	1.6	0.6	80.2	80.9
	2015	1430	77.0	4.2	6.2	77.0	10.4	1.3	0.9	75.6	78.4
-----											
International Avg (n=40)	2011	29023	69.2	8.4	8.9	69.2	11.2	1.4	0.9	67.9	70.5
	2015	30674	65.5	7.6	14.7	65.5	10.1	1.2	0.9	64.4	66.5
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Ontario, Canada	2011	654	71.3	7.3	8.2	71.3	11.4	1.6	0.2	66.6	76.0
	2015	661	74.7	6.9	6.4	74.7	9.8	0.7	1.4	74.8	74.6
Quebec, Canada	2011	609	80.4	9.7	4.4	80.4	4.4	1.0	0.1	77.3	83.5
	2015	403	80.4	6.2	5.8	80.4	7.0	0.4	0.2	81.4	79.5
Norway (4)	2011	438	73.7	8.7	6.9	73.7	7.6	0.5	2.6	69.5	77.5
	2015	594	74.5	8.4	4.6	74.5	9.4	1.3	1.9	70.6	77.8
Abu Dhabi, UAE	2011	587	39.8	15.6	15.8	39.8	25.7	2.1	1.0	34.2	45.0
	2015	717	40.5	16.2	15.7	40.5	25.5	1.7	0.5	35.8	43.9
Dubai, UAE	2011	872	51.9	14.9	12.4	51.9	19.0	1.5	0.4	49.2	54.2
	2015	1063	58.6	14.9	10.0	58.6	14.8	1.2	0.5	58.8	58.5
Florida, US	2011	370	83.3	2.2	6.0	83.3	6.7	0.9	0.8	81.6	84.9
	2015	282	78.1	4.3	5.9	78.1	10.7	0.7	0.3	80.1	76.1
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M07\_12 (M041271): Data Display / Reasoning      Type: MC    Key: D  
Label: Selecting correct bar graph

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	71.7	4.8	9.1	11.3	71.7	2.6	0.4	71.1	72.3
	2015	870	77.4	4.3	7.2	8.8	77.4	2.0	0.2	74.3	80.1
Bahrain	2011	572	46.1	9.7	9.6	29.7	46.1	3.4	1.5	51.3	41.1
	2015	594	65.7	7.1	4.4	19.2	65.7	3.3	0.2	69.5	61.9
Belgium (Flemish)	2011	681	69.1	6.2	8.8	13.5	69.1	2.1	0.2	68.5	69.8
	2015	766	74.1	4.1	7.8	11.3	74.1	2.2	0.5	79.8	68.3
Chile	2011	792	54.8	6.9	13.3	20.7	54.8	1.7	2.6	55.6	53.8
	2015	681	59.5	8.1	8.7	16.6	59.5	3.2	4.0	65.1	53.8
Chinese Taipei	2011	608	83.4	3.7	3.1	9.2	83.4	0.7	0.0	85.2	81.8
	2015	616	86.4	2.0	3.0	8.5	86.4	0.2	0.0	86.3	86.4
Croatia	2011	649	67.6	4.8	6.0	11.0	67.6	9.9	0.7	67.4	67.8
	2015	563	72.8	5.4	8.0	8.5	72.8	4.9	0.3	74.7	70.8
Czech Republic	2011	646	68.2	3.8	6.2	15.9	68.2	5.2	0.7	68.1	68.3
	2015	746	72.6	6.4	4.9	12.3	72.6	3.2	0.6	74.2	70.8
Denmark	2011	561	77.2	3.6	6.7	5.9	77.2	4.3	2.3	75.1	79.5
	2015	525	77.3	3.1	7.2	6.8	77.3	2.8	2.8	75.2	79.1
England	2011	496	78.4	3.1	6.5	10.3	78.4	0.9	0.8	80.0	76.8
	2015	574	81.3	3.1	4.8	9.5	81.3	0.5	0.9	83.1	79.5
Finland	2011	668	80.2	3.6	8.5	6.2	80.2	1.0	0.5	82.6	78.0
	2015	718	74.9	4.4	8.9	9.1	74.9	2.2	0.6	76.1	73.8
Georgia	2011	683	48.4	7.6	11.7	21.9	48.4	8.4	2.0	51.4	45.6
	2015	561	55.0	7.1	9.7	22.3	55.0	4.2	1.6	61.3	49.3
Germany	2011	567	70.3	4.7	7.1	13.2	70.3	4.2	0.6	70.7	69.9
	2015	568	69.3	3.8	9.5	11.7	69.3	5.0	0.7	72.1	66.8
Hong Kong SAR	2011	562	87.5	4.2	3.7	4.3	87.5	0.4	0.0	91.7	84.3
	2015	514	86.8	4.8	4.0	4.2	86.8	0.1	0.0	86.7	86.9
Hungary	2011	750	64.2	5.8	11.3	15.7	64.2	1.6	1.3	67.1	61.0
	2015	713	65.4	6.3	10.6	14.1	65.4	3.0	0.6	67.1	63.7
Iran, Islamic Rep. of	2011	818	44.2	9.4	12.9	24.7	44.2	6.1	2.6	44.8	43.5
	2015	547	39.8	8.1	12.9	30.6	39.8	6.7	1.9	39.3	40.4
Ireland	2011	663	78.7	2.8	7.3	8.8	78.7	2.3	0.1	80.9	76.5
	2015	622	80.1	3.2	7.0	8.1	80.1	0.6	0.9	81.6	78.9
Italy	2011	599	74.5	3.8	6.8	11.1	74.5	2.9	0.8	75.6	73.3
	2015	613	76.1	2.5	4.8	13.2	76.1	2.7	0.7	79.9	72.9
Japan	2011	624	93.8	0.6	3.6	1.4	93.8	0.5	0.1	92.8	94.6
	2015	621	90.3	1.9	3.9	2.8	90.3	0.8	0.3	92.5	88.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_12 (M041271): Data Display / Reasoning      Type: MC    Key: D  
Label: Selecting correct bar graph

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	61.7	9.6	6.2	18.1	61.7	3.4	1.0	62.2	61.3
	2015	667	73.1	7.8	7.4	10.9	73.1	0.5	0.3	79.5	67.2
Korea, Rep. of	2011	613	88.3	2.7	2.6	5.9	88.3	0.4	0.0	88.2	88.5
	2015	667	89.2	1.4	3.5	5.6	89.2	0.3	0.0	92.4	85.9
Kuwait	2011	586	24.2	12.3	10.4	42.7	24.2	7.7	2.8	28.8	18.4
	2015	505	28.8	9.8	14.8	30.1	28.8	10.2	6.3	28.6	28.9
Lithuania	2011	657	71.9	1.5	8.6	15.5	71.9	2.2	0.3	74.3	70.0
	2015	655	75.1	5.6	4.6	12.8	75.1	1.8	0.2	77.9	72.4
Morocco	2011	1070	22.6	13.1	11.5	39.6	22.6	8.2	5.0	23.6	21.5
	2015	721	32.6	19.1	11.2	30.3	32.6	3.2	3.6	36.7	28.6
Netherlands	2011	459	74.1	5.6	5.6	13.1	74.1	1.3	0.2	74.8	72.9
	2015	639	71.4	5.9	8.5	12.2	71.4	0.9	1.0	75.1	67.6
New Zealand	2011	800	71.4	4.2	8.2	14.0	71.4	1.8	0.3	72.8	70.0
	2015	913	70.3	5.9	8.8	11.8	70.3	1.9	1.3	70.4	70.2
Northern Ireland	2011	499	82.1	4.5	5.2	7.1	82.1	1.1	0.0	85.8	78.9
	2015	440	84.8	3.7	4.9	6.1	84.8	0.4	0.0	83.5	86.3
Oman	2011	1484	47.1	11.2	11.3	23.9	47.1	5.0	1.5	53.3	41.7
	2015	1302	49.8	13.4	10.5	23.1	49.8	2.2	1.0	57.7	41.9
Portugal	2011	592	72.9	2.4	5.6	16.3	72.9	2.1	0.7	73.9	72.0
	2015	674	74.5	4.5	7.2	11.9	74.5	1.9	0.1	76.4	72.5
Qatar	2011	585	46.9	10.3	11.8	26.4	46.9	3.5	1.1	50.0	43.9
	2015	741	56.4	8.8	10.9	18.2	56.4	3.5	2.1	58.0	54.8
Russian Federation	2011	644	77.2	2.9	6.6	10.9	77.2	2.2	0.2	81.4	73.1
	2015	702	79.7	2.7	6.6	8.2	79.7	2.2	0.5	82.0	77.4
Saudi Arabia	2011	659	48.7	10.4	14.7	24.0	48.7	0.9	1.3	52.2	45.1
	2015	619	41.0	10.3	11.7	29.8	41.0	5.0	2.1	53.2	29.2
Serbia	2011	631	65.9	7.6	6.1	15.4	65.9	3.6	1.4	73.6	59.5
	2015	566	71.9	7.1	6.9	9.2	71.9	4.2	0.8	75.0	68.7
Singapore	2011	915	77.2	5.9	6.5	10.0	77.2	0.3	0.1	80.0	74.6
	2015	935	82.4	4.1	5.4	8.0	82.4	0.0	0.0	86.2	78.6
Slovak Republic	2011	814	69.0	6.5	6.5	13.5	69.0	4.0	0.4	73.2	65.3
	2015	828	71.2	5.6	7.1	12.2	71.2	3.5	0.5	69.3	73.1
Slovenia	2011	644	71.3	5.6	7.0	12.9	71.3	2.5	0.7	72.1	70.5
	2015	645	78.7	4.5	6.1	8.2	78.7	2.1	0.4	82.6	74.6
Spain	2011	602	64.6	4.8	6.4	15.3	64.6	6.8	2.2	66.6	62.6
	2015	1091	70.3	5.0	6.3	13.6	70.3	4.2	0.5	70.6	70.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M07\_12 (M041271): Data Display / Reasoning      Type: MC      Key: D  
Label: Selecting correct bar graph

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	72.5	4.5	10.3	7.0	72.5	4.0	1.7	76.5	69.1
	2015	575	76.5	3.8	7.2	6.8	76.5	4.7	1.1	79.9	73.1
Turkey	2011	1069	65.5	7.3	8.8	16.8	65.5	0.9	0.7	68.0	63.2
	2015	924	68.6	7.8	8.6	14.3	68.6	0.6	0.1	71.1	66.2
United Arab Emirates	2011	2091	49.1	10.8	9.3	27.0	49.1	2.6	1.1	49.8	48.5
	2015	3032	53.6	11.9	8.5	22.2	53.6	2.9	0.9	57.3	50.4
United States	2011	1776	82.0	3.7	5.9	7.0	82.0	0.6	0.8	83.0	81.0
	2015	1430	80.4	3.5	6.4	7.7	80.4	0.9	1.1	82.3	78.5
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International Avg (n=40)	2011	30268	66.6	5.9	7.9	15.4	66.6	3.1	1.0	68.6	64.7
	2015	30683	69.6	5.9	7.5	13.3	69.6	2.6	1.0	72.1	67.2
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Ontario, Canada	2011	654	81.0	4.1	5.4	8.3	81.0	0.6	0.5	81.2	80.8
	2015	663	79.3	4.3	6.8	7.4	79.3	0.8	1.4	80.9	77.6
Quebec, Canada	2011	609	76.8	3.0	5.8	11.7	76.8	2.6	0.1	78.4	75.3
	2015	402	77.0	3.4	6.9	11.6	77.0	1.0	0.2	79.7	74.4
Norway (4)	2011	438	67.4	2.2	9.8	15.8	67.4	2.1	2.6	72.5	62.8
	2015	594	68.7	6.6	7.1	13.5	68.7	1.7	2.4	69.8	67.8
Abu Dhabi, UAE	2011	587	43.1	11.6	10.0	31.3	43.1	2.4	1.7	44.5	41.7
	2015	717	42.5	15.8	9.3	27.6	42.5	4.3	0.5	49.3	37.4
Dubai, UAE	2011	871	60.7	8.9	8.4	18.5	60.7	3.0	0.5	60.8	60.6
	2015	1063	68.0	8.0	6.9	14.3	68.0	2.2	0.6	70.7	65.3
Florida, US	2011	370	87.3	2.3	5.4	4.0	87.3	0.3	0.8	89.4	85.3
	2015	282	77.5	8.6	7.9	4.6	77.5	0.9	0.6	77.2	77.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.



M07\_l3A (M041276A): Data Display / Knowing Type: CR 1 Point  
Label: Who won the Triathlon

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	46.2	4.7	44.4	3.6	1.0	46.2	44.9	47.5
	2015	870	43.5	4.2	48.7	3.4	0.2	43.5	44.8	42.4
Bahrain	2011	572	20.8	5.4	66.8	5.4	1.7	20.8	22.8	18.7
	2015	594	27.3	5.8	59.2	7.1	0.6	27.3	30.8	23.8
Belgium (Flemish)	2011	681	55.0	5.8	37.2	1.2	0.9	55.0	50.3	59.9
	2015	766	52.1	6.5	39.4	1.3	0.7	52.1	50.7	53.7
Chile	2011	792	37.3	4.8	46.5	8.3	3.1	37.3	40.1	34.1
	2015	681	33.1	3.2	51.0	7.8	4.9	33.1	34.3	31.9
Chinese Taipei	2011	608	81.5	4.6	13.3	0.7	0.0	81.5	82.4	80.6
	2015	616	83.9	2.4	13.0	0.7	0.0	83.9	85.2	82.7
Croatia	2011	649	39.8	4.9	45.5	8.1	1.9	39.8	34.4	45.0
	2015	563	45.7	1.1	46.4	6.1	0.6	45.7	46.1	45.3
Czech Republic	2011	646	60.8	7.1	27.1	4.2	0.8	60.8	55.5	65.2
	2015	746	65.4	4.3	26.8	2.7	0.8	65.4	62.6	68.6
Denmark	2011	561	57.6	4.1	31.9	3.5	2.9	57.6	53.4	62.4
	2015	525	57.2	0.4	34.8	3.6	3.9	57.2	52.5	61.4
England	2011	496	49.8	2.0	44.1	3.4	0.8	49.8	52.2	47.4
	2015	574	55.2	2.2	40.5	1.1	1.0	55.2	54.3	56.0
Finland	2011	668	55.8	2.1	39.9	1.7	0.5	55.8	50.4	60.7
	2015	718	51.1	3.2	42.0	2.7	1.1	51.1	51.0	51.2
Georgia	2011	682	30.8	2.3	52.5	10.1	4.3	30.8	30.8	30.9
	2015	561	27.5	4.6	52.3	13.3	2.4	27.5	24.6	30.0
Germany	2011	567	65.1	2.7	25.8	5.3	1.1	65.1	65.3	65.0
	2015	568	58.6	3.7	32.2	4.3	1.3	58.6	56.9	60.1
Hong Kong SAR	2011	562	72.3	4.8	22.0	0.8	0.2	72.3	71.7	72.7
	2015	514	76.2	3.6	20.2	0.0	0.1	76.2	70.6	80.7
Hungary	2011	750	59.1	2.6	35.1	1.9	1.3	59.1	61.9	56.1
	2015	713	58.7	1.8	37.1	1.4	0.9	58.7	59.9	57.5
Iran, Islamic Rep. of	2011	818	22.5	3.3	56.8	13.7	3.8	22.5	23.2	21.8
	2015	547	21.5	2.9	58.8	14.3	2.5	21.5	18.8	24.3
Ireland	2011	663	59.1	3.0	36.0	1.6	0.3	59.1	58.9	59.3
	2015	622	62.9	4.0	31.1	1.0	1.0	62.9	66.4	59.8
Italy	2011	599	46.9	5.7	42.6	3.5	1.2	46.9	47.2	46.7
	2015	612	49.6	5.2	36.6	7.6	1.1	49.6	51.8	47.6
Japan	2011	624	72.0	2.7	24.4	0.7	0.1	72.0	69.9	73.9
	2015	621	70.9	3.2	25.2	0.2	0.5	70.9	71.2	70.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_l3A (M041276A): Data Display / Knowing Type: CR 1 Point  
Label: Who won the Triathlon

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	42.8	4.2	38.1	12.7	2.2	42.8	40.2	45.1
	2015	667	49.5	5.7	40.7	3.5	0.6	49.5	54.7	44.9
Korea, Rep. of	2011	613	75.2	6.0	17.9	0.9	0.0	75.2	74.3	76.1
	2015	667	75.8	5.3	18.7	0.2	0.0	75.8	76.3	75.2
Kuwait	2011	590	3.7	2.2	75.3	15.1	3.7	3.7	4.4	2.9
	2015	504	7.3	0.5	64.7	20.2	7.3	7.3	6.9	7.8
Lithuania	2011	657	51.0	3.7	37.7	7.1	0.5	51.0	48.3	53.1
	2015	655	51.5	3.1	38.8	6.0	0.5	51.5	50.8	52.3
Morocco	2011	1131	7.3	1.0	61.2	23.2	7.2	7.3	8.4	6.2
	2015	716	12.9	3.3	65.5	14.1	4.2	12.9	14.9	10.8
Netherlands	2011	459	58.3	4.7	35.2	1.3	0.4	58.3	58.3	58.4
	2015	639	54.0	5.9	36.0	2.5	1.5	54.0	50.0	58.0
New Zealand	2011	800	37.6	1.9	56.8	2.5	1.2	37.6	39.1	36.1
	2015	913	44.5	1.0	49.9	3.0	1.6	44.5	40.8	47.8
Northern Ireland	2011	499	55.1	3.8	38.6	2.3	0.1	55.1	55.7	54.6
	2015	444	58.6	2.7	36.4	2.2	0.1	58.6	55.9	61.4
Oman	2011	1484	12.0	3.5	75.0	6.9	2.6	12.0	13.6	10.6
	2015	1302	17.7	4.0	70.6	6.4	1.4	17.7	19.6	15.9
Portugal	2011	592	57.0	6.6	32.7	2.8	0.9	57.0	55.7	58.1
	2015	674	56.4	9.0	31.1	2.5	0.9	56.4	54.5	58.5
Qatar	2011	585	21.4	2.8	66.7	7.7	1.4	21.4	20.4	22.4
	2015	741	27.1	5.1	59.3	6.0	2.5	27.1	28.1	26.1
Russian Federation	2011	645	57.4	2.1	35.4	4.6	0.6	57.4	57.0	57.7
	2015	702	66.3	2.7	26.8	3.4	0.8	66.3	62.1	70.3
Saudi Arabia	2011	661	14.7	3.1	72.8	7.8	1.6	14.7	12.8	16.7
	2015	620	17.0	3.1	62.4	14.1	3.3	17.0	21.0	13.1
Serbia	2011	631	58.8	1.3	33.2	5.2	1.6	58.8	57.2	60.1
	2015	566	57.2	1.8	31.4	7.7	1.9	57.2	58.7	55.6
Singapore	2011	915	69.9	4.4	24.9	0.7	0.1	69.9	71.7	68.1
	2015	935	72.3	3.1	24.4	0.2	0.0	72.3	73.9	70.6
Slovak Republic	2011	814	49.0	3.4	41.5	5.3	0.8	49.0	47.6	50.2
	2015	828	49.4	3.4	39.7	6.6	0.9	49.4	47.8	51.0
Slovenia	2011	645	57.8	3.0	34.7	3.7	0.8	57.8	58.3	57.4
	2015	645	57.7	2.4	36.3	3.0	0.6	57.7	51.4	64.3
Spain	2011	602	44.4	4.1	41.9	6.8	2.8	44.4	37.7	50.9
	2015	1091	51.2	2.8	40.2	4.9	0.9	51.2	50.4	51.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_l3A (M041276A): Data Display / Knowing Type: CR 1 Point  
Label: Who won the Triathlon

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	45.7	3.9	40.2	8.1	2.1	45.7	42.4	48.5
	2015	575	46.5	5.1	39.7	5.9	2.8	46.5	46.7	46.6
Turkey	2011	1069	36.8	5.9	52.0	4.3	1.0	36.8	34.9	38.7
	2015	924	37.7	6.3	49.4	6.1	0.5	37.7	37.1	38.2
United Arab Emirates	2011	2092	25.6	5.5	62.2	5.2	1.5	25.6	24.6	26.6
	2015	3030	29.9	3.9	60.3	4.3	1.7	29.9	29.8	30.1
United States	2011	1776	56.0	3.1	38.3	1.4	1.1	56.0	56.0	56.1
	2015	1430	56.0	3.0	38.7	1.0	1.4	56.0	55.1	56.9
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International Avg (n=40)	2011	30337	46.7	3.8	42.6	5.3	1.5	46.7	45.8	47.6
	2015	30679	48.4	3.6	41.4	5.1	1.5	48.4	48.0	48.9
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Ontario, Canada	2011	654	48.3	2.4	46.5	2.2	0.6	48.3	51.9	44.9
	2015	664	45.8	3.4	47.3	1.8	1.7	45.8	45.8	45.9
Quebec, Canada	2011	609	58.8	5.1	33.4	2.6	0.1	58.8	58.6	59.0
	2015	403	55.6	4.1	37.8	2.3	0.2	55.6	54.2	57.3
Norway (4)	2011	438	44.4	5.3	42.9	4.3	3.1	44.4	44.1	44.6
	2015	594	44.4	4.4	43.0	5.2	3.0	44.4	43.0	45.6
Abu Dhabi, UAE	2011	587	18.4	5.5	68.6	5.7	1.9	18.4	18.0	18.8
	2015	717	19.0	3.4	71.2	5.0	1.4	19.0	17.7	19.9
Dubai, UAE	2011	872	36.1	4.9	53.6	4.3	1.1	36.1	36.0	36.1
	2015	1062	47.2	3.8	44.5	3.2	1.3	47.2	48.0	46.4
Florida, US	2011	370	53.4	2.7	41.2	1.6	1.1	53.4	53.5	53.3
	2015	282	55.8	2.7	38.9	1.7	1.0	55.8	60.7	50.9
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_13B (M041276B): Data Display / Reasoning Type: CR 1 Point  
Label: What Sue needs to improve on

COUNTRY	Year	N	10 %	11 %	12 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	21.4	0.4	4.1	9.6	61.2	1.6	1.8	25.9	28.2	23.9
	2015	870	22.6	0.0	10.8	6.3	57.8	0.7	1.8	33.3	34.0	32.7
Bahrain	2011	572	13.6	1.8	9.2	3.7	67.1	2.2	2.5	24.5	31.5	17.6
	2015	594	9.3	1.9	7.0	7.5	68.7	2.6	3.0	18.2	22.4	14.1
Belgium (Flemish)	2011	681	33.1	1.1	4.9	12.4	46.4	0.8	1.3	39.1	41.6	36.3
	2015	766	26.3	0.2	5.9	8.4	57.3	0.6	1.2	32.4	37.4	27.3
Chile	2011	792	16.1	0.0	3.6	2.4	69.0	3.6	5.4	19.7	22.3	16.7
	2015	681	13.4	0.0	1.3	3.0	73.1	2.7	6.7	14.6	14.8	14.4
Chinese Taipei	2011	608	47.7	0.4	8.2	12.0	31.6	0.0	0.2	56.2	62.0	51.2
	2015	616	53.6	0.5	8.8	11.8	25.4	0.0	0.0	62.9	64.0	61.8
Croatia	2011	649	21.7	0.5	2.0	6.4	65.8	0.9	2.7	24.1	25.9	22.4
	2015	563	23.1	0.1	3.9	11.2	58.5	1.6	1.5	27.1	23.1	31.4
Czech Republic	2011	646	40.1	0.4	5.5	10.6	39.2	2.4	1.8	46.0	47.9	44.3
	2015	746	38.8	0.2	4.5	5.6	48.2	1.4	1.2	43.6	45.3	41.5
Denmark	2011	561	22.7	0.1	2.5	1.8	66.7	2.0	4.2	25.3	25.4	25.2
	2015	525	23.9	0.2	1.2	0.3	67.6	1.6	5.3	25.2	27.2	23.4
England	2011	496	27.7	0.0	8.5	7.5	52.6	2.1	1.6	36.2	41.0	31.5
	2015	574	30.2	0.4	11.5	8.6	47.3	0.9	1.1	42.1	43.8	40.5
Finland	2011	668	41.3	0.3	12.9	7.8	36.3	0.6	0.9	54.5	60.2	49.2
	2015	718	43.6	1.1	8.9	4.7	38.6	0.9	2.1	53.6	59.0	48.6
Georgia	2011	682	14.8	4.9	6.4	4.6	57.4	6.2	5.6	26.2	24.3	27.9
	2015	561	10.2	0.0	5.9	5.7	65.9	7.0	5.3	16.1	13.5	18.4
Germany	2011	567	45.5	0.5	1.0	4.9	45.7	0.9	1.7	46.9	46.3	47.4
	2015	568	33.9	0.0	5.2	4.7	53.5	1.1	1.6	39.1	43.9	34.7
Hong Kong SAR	2011	562	47.3	0.0	1.1	7.4	43.6	0.1	0.5	48.4	47.8	48.9
	2015	514	52.9	0.5	5.9	5.7	34.8	0.0	0.1	59.4	60.9	58.1
Hungary	2011	749	31.5	0.7	5.7	8.5	51.3	0.7	1.6	37.9	40.3	35.2
	2015	713	31.1	0.1	4.8	6.4	55.0	1.0	1.6	36.0	40.1	32.2
Iran, Islamic Rep. of	2011	818	9.4	0.2	0.9	1.3	77.3	5.1	5.8	10.5	10.2	10.9
	2015	547	7.2	0.2	2.8	4.6	76.0	5.4	3.8	10.3	9.5	11.1
Ireland	2011	663	28.7	0.3	6.8	10.2	52.7	0.6	0.5	35.9	39.9	31.8
	2015	622	33.9	0.2	9.1	6.8	48.4	0.1	1.4	43.3	44.2	42.5
Italy	2011	599	18.9	1.0	4.2	5.4	65.1	3.4	2.0	24.2	26.9	21.1
	2015	612	20.6	0.3	7.4	4.0	62.0	2.6	3.1	28.3	28.3	28.4
Japan	2011	624	64.2	0.1	7.5	3.5	24.2	0.2	0.3	71.8	75.3	68.8
	2015	621	61.8	0.2	6.2	5.6	25.6	0.1	0.5	68.1	72.5	64.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_13B (M041276B): Data Display / Reasoning Type: CR 1 Point  
Label: What Sue needs to improve on

COUNTRY	Year	N	10 %	11 %	12 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	18.6	2.3	9.9	1.9	40.8	20.8	5.7	30.8	32.6	29.1
	2015	667	25.4	0.2	4.7	0.8	65.4	1.4	2.1	30.3	33.9	26.9
Korea, Rep. of	2011	613	48.6	0.1	10.5	5.5	34.5	0.0	0.7	59.2	60.3	58.1
	2015	667	60.4	0.3	15.9	1.6	21.3	0.2	0.2	76.7	77.7	75.7
Kuwait	2011	590	3.0	1.4	2.1	2.2	80.0	6.0	5.2	6.5	8.1	4.6
	2015	504	0.6	0.0	1.2	0.7	75.6	10.0	11.9	1.8	1.4	2.2
Lithuania	2011	657	24.1	0.2	6.5	7.4	58.2	2.1	1.5	30.8	35.3	27.1
	2015	655	27.0	0.0	8.6	4.5	55.3	2.7	1.9	35.5	38.0	33.1
Morocco	2011	1131	0.9	0.0	0.7	0.2	50.7	31.9	15.5	1.6	2.2	0.9
	2015	716	4.1	1.4	3.1	13.4	68.0	4.7	5.3	8.6	8.8	8.4
Netherlands	2011	459	27.7	0.0	3.9	9.9	56.8	0.9	0.8	31.6	33.8	29.1
	2015	639	22.1	0.3	6.0	7.5	61.1	1.0	2.1	28.4	29.0	27.9
New Zealand	2011	800	21.5	0.3	7.0	5.2	62.9	1.0	2.0	28.9	32.1	25.6
	2015	913	23.3	0.0	5.1	8.9	58.9	1.8	2.0	28.4	28.8	28.0
Northern Ireland	2011	499	23.5	0.1	7.3	12.0	56.7	0.1	0.4	30.9	33.2	28.9
	2015	444	28.5	0.2	6.0	5.9	57.9	1.0	0.6	34.7	39.0	30.1
Oman	2011	1484	5.3	1.1	2.5	1.9	83.1	2.0	4.0	9.0	10.9	7.3
	2015	1302	9.4	2.3	8.2	2.5	67.3	7.2	2.9	20.0	23.7	16.3
Portugal	2011	592	30.0	0.1	5.9	7.6	53.0	1.3	2.1	36.0	41.5	31.6
	2015	674	23.9	0.2	3.2	12.4	56.3	2.2	1.8	27.3	26.5	28.2
Qatar	2011	585	7.2	0.2	2.5	3.6	81.9	2.2	2.4	9.9	11.0	8.9
	2015	741	11.5	0.7	3.9	3.6	73.4	2.8	4.0	16.1	16.9	15.4
Russian Federation	2011	645	28.5	0.3	3.4	2.0	63.3	1.3	1.1	32.2	34.8	29.6
	2015	702	36.4	0.5	4.1	7.7	48.3	1.4	1.4	41.1	40.4	41.8
Saudi Arabia	2011	661	9.5	0.6	3.9	1.2	80.4	1.9	2.6	14.0	17.0	10.8
	2015	620	7.0	2.9	4.3	17.4	58.5	5.1	4.9	14.1	15.6	12.7
Serbia	2011	631	17.1	0.0	0.9	0.0	76.2	2.6	3.1	18.0	19.5	16.7
	2015	566	33.5	0.0	4.4	6.5	48.1	3.3	4.1	37.9	42.4	33.3
Singapore	2011	915	50.8	0.3	10.8	5.0	32.6	0.3	0.2	61.9	64.5	59.4
	2015	935	55.4	0.1	8.0	5.4	30.9	0.1	0.0	63.6	65.1	62.0
Slovak Republic	2011	814	22.8	0.1	5.1	6.1	62.1	1.9	2.0	27.9	33.6	22.8
	2015	828	22.6	0.6	5.6	5.3	61.1	2.2	2.7	28.8	25.2	32.2
Slovenia	2011	645	40.3	0.4	1.1	0.1	54.2	2.8	1.2	41.7	44.4	39.0
	2015	645	39.6	0.6	7.6	0.9	47.7	2.9	0.7	47.8	49.7	45.9
Spain	2011	602	11.6	0.0	1.0	6.0	74.1	3.2	4.0	12.7	10.7	14.5
	2015	1091	24.0	0.4	4.8	0.4	65.2	3.2	2.0	29.2	32.7	26.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M07\_13B (M041276B): Data Display / Reasoning Type: CR 1 Point  
Label: What Sue needs to improve on

COUNTRY	Year	N	10 %	11 %	12 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	630	25.8	0.0	1.1	8.5	58.8	1.1	4.7	26.8	29.6	24.5
	2015	575	37.7	0.0	4.6	7.7	42.3	3.2	4.5	42.3	46.9	37.5
Turkey	2011	1068	14.6	0.6	6.6	2.5	72.5	1.6	1.7	21.8	24.7	19.0
	2015	924	18.4	0.3	5.0	8.1	65.2	2.0	1.0	23.7	23.9	23.5
United Arab Emirates	2011	2092	9.3	0.4	2.9	6.7	76.1	2.3	2.2	12.6	14.7	10.6
	2015	3031	14.5	0.6	4.9	5.5	69.5	2.4	2.6	19.9	22.1	18.0
United States	2011	1776	33.5	1.4	13.5	7.9	41.2	0.7	1.8	48.4	48.8	47.9
	2015	1430	30.9	0.8	10.8	5.4	49.5	0.6	1.9	42.5	43.5	41.5
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International Avg (n=40)	2011	30335	25.5	0.6	5.1	5.6	57.6	3.0	2.6	31.2	33.5	28.9
	2015	30680	27.3	0.5	6.0	6.1	55.3	2.3	2.5	33.8	35.4	32.3
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Ontario, Canada	2011	654	30.7	0.8	8.8	8.1	47.9	1.9	1.7	40.4	43.2	37.6
	2015	664	33.3	0.8	14.4	5.7	39.5	3.7	2.6	48.5	49.9	47.2
Quebec, Canada	2011	609	35.8	0.8	16.2	9.1	34.7	2.4	0.9	52.8	56.6	49.2
	2015	403	39.6	1.2	14.3	3.2	37.8	2.4	1.5	55.1	57.0	53.0
Norway (4)	2011	438	17.3	0.2	4.6	1.4	70.2	2.3	4.0	22.1	28.8	16.0
	2015	594	24.0	1.0	7.4	3.2	58.0	1.5	5.0	32.4	37.0	28.4
Abu Dhabi, UAE	2011	587	7.1	0.5	3.3	5.8	78.7	2.1	2.5	10.9	13.4	8.6
	2015	716	10.5	0.1	3.3	4.6	76.9	2.1	2.5	13.9	15.5	12.8
Dubai, UAE	2011	872	14.4	0.2	1.4	8.6	71.6	1.6	2.2	16.1	16.3	15.9
	2015	1063	28.3	0.4	7.4	5.9	53.5	2.2	2.4	36.1	40.2	31.8
Florida, US	2011	370	35.0	0.4	9.9	7.7	44.4	0.8	1.9	45.3	44.8	45.7
	2015	282	30.3	0.4	9.7	4.0	53.2	0.7	1.8	40.3	44.0	36.7
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_01 (M051206): Number / Knowing      Type: CR    1 Point  
Label: Add 385 to 5876

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	50.8	45.8	3.5	0.0	50.8	55.8	46.3
	2015	857	45.3	52.1	2.5	0.1	45.3	48.0	42.5
Bahrain	2011	585	57.5	41.5	0.8	0.2	57.5	57.9	57.1
	2015	593	59.4	39.0	1.6	0.0	59.4	62.5	56.5
Belgium (Flemish)	2011	685	58.3	40.6	1.0	0.0	58.3	56.7	59.6
	2015	777	56.8	41.4	1.6	0.2	56.8	58.4	55.1
Chile	2011	798	71.8	25.7	2.2	0.3	71.8	74.7	68.6
	2015	662	61.2	31.9	6.2	0.8	61.2	64.5	58.2
Chinese Taipei	2011	615	94.6	5.4	0.0	0.0	94.6	94.2	95.0
	2015	614	90.6	9.2	0.2	0.0	90.6	92.9	88.3
Croatia	2011	646	83.6	14.8	1.6	0.0	83.6	84.6	82.5
	2015	564	83.4	15.8	0.3	0.5	83.4	85.1	81.7
Czech Republic	2011	654	67.0	29.3	3.6	0.0	67.0	70.4	63.8
	2015	742	66.4	29.5	4.0	0.2	66.4	69.3	63.6
Denmark	2011	563	74.4	22.6	3.0	0.0	74.4	76.8	71.8
	2015	524	72.2	24.7	2.4	0.7	72.2	75.1	69.3
England	2011	471	59.7	38.3	2.0	0.0	59.7	64.7	55.0
	2015	571	70.4	28.8	0.8	0.0	70.4	73.0	67.6
Finland	2011	664	47.4	47.1	5.5	0.0	47.4	46.1	48.7
	2015	702	40.2	56.7	3.1	0.0	40.2	39.7	40.6
Georgia	2011	691	67.2	28.4	3.8	0.7	67.2	67.7	66.7
	2015	562	69.9	28.6	1.5	0.0	69.9	72.7	67.0
Germany	2011	573	64.0	31.0	5.0	0.0	64.0	66.2	61.9
	2015	561	64.4	30.0	5.6	0.0	64.4	71.0	58.5
Hong Kong SAR	2011	566	73.0	26.0	1.0	0.0	73.0	79.5	67.2
	2015	516	81.3	18.4	0.3	0.0	81.3	79.7	82.9
Hungary	2011	743	73.7	24.6	1.6	0.0	73.7	74.6	73.0
	2015	725	75.0	23.4	1.0	0.6	75.0	79.0	70.6
Iran, Islamic Rep. of	2011	829	61.6	27.3	10.8	0.3	61.6	64.6	58.7
	2015	545	45.6	40.4	13.4	0.6	45.6	49.1	42.5
Ireland	2011	654	74.6	24.4	1.0	0.0	74.6	74.3	74.8
	2015	623	80.4	19.3	0.3	0.0	80.4	81.4	79.6
Italy	2011	600	81.8	17.7	0.4	0.1	81.8	85.8	78.2
	2015	640	78.4	20.2	1.1	0.3	78.4	78.4	78.5
Japan	2011	629	87.0	13.0	0.0	0.0	87.0	84.8	88.9
	2015	634	84.3	15.0	0.6	0.1	84.3	87.4	80.7

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_01 (M051206): Number / Knowing      Type: CR    1 Point  
Label: Add 385 to 5876

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	623	81.5	17.7	0.8	0.0	81.5	86.8	76.9
	2015	675	82.2	17.1	0.5	0.1	82.2	82.8	81.6
Korea, Rep. of	2011	617	87.0	13.0	0.0	0.0	87.0	87.2	86.8
	2015	665	87.6	12.4	0.0	0.0	87.6	87.1	88.1
Kuwait	2011	589	22.6	66.6	9.6	1.1	22.6	26.9	17.5
	2015	513	26.7	57.0	14.7	1.6	26.7	25.4	26.9
Lithuania	2011	680	80.5	18.2	1.3	0.0	80.5	82.3	78.9
	2015	652	80.1	19.7	0.3	0.0	80.1	80.7	79.3
Morocco	2011	1115	44.3	41.3	13.9	0.6	44.3	42.0	46.2
	2015	711	53.8	42.9	2.7	0.7	53.8	55.6	52.2
Netherlands	2011	470	62.7	36.6	0.6	0.0	62.7	63.8	61.7
	2015	642	55.1	42.9	1.5	0.5	55.1	58.1	52.6
New Zealand	2011	801	24.3	72.4	3.0	0.3	24.3	28.5	20.5
	2015	898	24.9	70.7	4.4	0.0	24.9	24.0	25.8
Northern Ireland	2011	503	73.1	25.8	1.2	0.0	73.1	76.9	69.8
	2015	447	71.8	27.0	0.8	0.4	71.8	76.0	67.7
Oman	2011	1477	38.2	55.8	5.3	0.7	38.2	44.8	31.9
	2015	1291	44.1	52.8	2.9	0.3	44.1	51.2	36.8
Portugal	2011	574	84.7	14.6	0.6	0.1	84.7	85.4	84.0
	2015	666	87.8	11.9	0.1	0.2	87.8	89.5	86.2
Qatar	2011	587	50.6	45.2	4.2	0.1	50.6	55.6	46.1
	2015	743	57.0	39.1	3.1	0.8	57.0	60.8	53.1
Russian Federation	2011	645	84.6	15.3	0.0	0.1	84.6	85.0	84.1
	2015	695	89.8	9.6	0.5	0.0	89.8	90.1	89.5
Saudi Arabia	2011	657	46.1	49.2	4.7	0.0	46.1	52.9	39.0
	2015	634	15.6	65.6	18.3	0.5	15.6	24.4	7.3
Serbia	2011	621	86.2	12.4	1.3	0.1	86.2	88.2	84.4
	2015	572	82.3	14.7	2.8	0.3	82.3	85.3	79.5
Singapore	2011	910	91.3	8.7	0.0	0.0	91.3	93.9	89.0
	2015	923	91.1	8.7	0.1	0.0	91.1	92.1	90.3
Slovak Republic	2011	806	76.9	21.7	1.0	0.4	76.9	78.4	75.3
	2015	818	72.4	25.9	1.7	0.0	72.4	74.5	70.5
Slovenia	2011	628	62.6	35.2	2.3	0.0	62.6	65.9	59.8
	2015	643	65.1	32.5	2.3	0.1	65.1	65.6	64.6
Spain	2011	601	82.5	15.0	2.5	0.0	82.5	83.9	81.3
	2015	1119	80.4	17.8	1.2	0.6	80.4	79.5	81.2

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M09\_01 (M051206): Number / Knowing      Type: CR    1 Point  
Label: Add 385 to 5876

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	52.7	43.0	4.2	0.0	52.7	55.0	50.5
	2015	590	59.9	37.2	2.6	0.3	59.9	59.9	59.9
Turkey	2011	1073	72.4	24.7	2.6	0.4	72.4	74.1	71.0
	2015	930	74.1	24.1	1.8	0.0	74.1	75.5	72.9
United Arab Emirates	2011	2101	52.3	43.9	3.8	0.1	52.3	54.7	49.9
	2015	3024	56.1	40.3	3.6	0.0	56.1	56.3	55.9
United States	2011	1799	82.6	16.9	0.5	0.0	82.6	83.3	82.0
	2015	1428	83.0	15.8	0.9	0.3	83.0	83.3	82.7
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International Avg (n=40)	2011	30394	67.2	29.9	2.8	0.1	67.2	69.4	65.1
	2015	30691	66.7	30.2	2.8	0.3	66.7	68.6	64.7
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Ontario, Canada	2011	646	53.5	43.0	2.7	0.8	53.5	55.6	51.5
	2015	656	53.0	45.4	1.3	0.3	53.0	58.7	47.3
Quebec, Canada	2011	596	83.8	14.5	1.6	0.0	83.8	83.8	83.9
	2015	398	81.9	17.7	0.4	0.0	81.9	84.8	79.1
Norway (4)	2011	453	50.3	46.2	3.0	0.4	50.3	54.0	45.7
	2015	596	51.4	45.8	2.5	0.2	51.4	53.7	49.1
Abu Dhabi, UAE	2011	600	48.5	48.3	3.1	0.0	48.5	49.2	47.9
	2015	713	46.0	49.1	4.9	0.0	46.0	45.3	46.6
Dubai, UAE	2011	869	62.8	34.0	3.1	0.1	62.8	64.6	61.3
	2015	1071	71.4	27.5	0.9	0.1	71.4	72.6	70.4
Florida, US	2011	393	85.2	14.6	0.2	0.0	85.2	88.2	82.4
	2015	285	82.0	17.3	0.7	0.0	82.0	87.8	76.1
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_02 (M051052): Number / Knowing Type: MC Key: C  
Label: Number closest in size to 5341

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	71.8	1.5	17.4	71.8	8.0	1.3	0.0	67.0	76.1
	2015	857	73.2	0.7	16.5	73.2	8.0	1.4	0.1	67.9	79.1
Bahrain	2011	585	28.3	36.4	25.9	28.3	7.8	1.5	0.2	24.4	32.0
	2015	593	40.1	11.6	35.2	40.1	12.5	0.6	0.0	31.9	47.7
Belgium (Flemish)	2011	685	84.4	0.7	9.6	84.4	4.4	0.9	0.0	82.6	85.8
	2015	777	81.8	0.7	12.1	81.8	4.1	1.1	0.2	79.1	84.8
Chile	2011	798	52.3	4.1	34.1	52.3	8.3	0.8	0.4	49.6	55.3
	2015	662	49.6	3.6	37.1	49.6	7.1	1.7	0.9	48.4	50.7
Chinese Taipei	2011	615	79.4	0.5	15.6	79.4	4.3	0.3	0.0	79.6	79.2
	2015	614	77.6	0.5	16.8	77.6	4.6	0.4	0.0	70.3	84.8
Croatia	2011	646	56.7	0.6	37.4	56.7	5.3	0.0	0.0	52.7	60.8
	2015	564	51.9	0.2	39.0	51.9	8.2	0.2	0.5	48.0	55.8
Czech Republic	2011	654	65.4	0.0	29.4	65.4	5.0	0.3	0.0	59.8	70.7
	2015	742	66.8	1.2	24.9	66.8	6.0	0.6	0.6	64.3	69.1
Denmark	2011	563	85.1	0.6	7.6	85.1	4.4	2.0	0.2	81.0	89.4
	2015	524	85.7	0.4	9.6	85.7	2.2	1.3	0.9	80.4	90.9
England	2011	471	69.9	2.5	21.4	69.9	6.2	0.0	0.0	63.8	75.8
	2015	571	72.7	1.6	19.4	72.7	5.8	0.4	0.0	67.8	78.0
Finland	2011	664	77.9	0.5	14.8	77.9	6.4	0.5	0.0	73.9	81.5
	2015	702	77.2	0.3	15.8	77.2	6.0	0.7	0.0	71.9	81.9
Georgia	2011	691	54.1	3.7	27.3	54.1	13.3	0.9	0.7	53.1	55.0
	2015	562	59.8	2.5	28.1	59.8	8.7	0.8	0.2	52.2	67.5
Germany	2011	573	79.9	0.6	13.6	79.9	5.4	0.3	0.3	73.9	85.9
	2015	561	75.8	0.2	17.3	75.8	5.0	1.8	0.0	70.6	80.4
Hong Kong SAR	2011	566	81.3	0.1	12.7	81.3	5.9	0.0	0.0	77.6	84.6
	2015	516	84.5	0.0	10.7	84.5	4.8	0.0	0.0	82.7	86.3
Hungary	2011	743	70.7	1.2	23.4	70.7	4.2	0.6	0.0	64.0	76.3
	2015	725	76.7	1.1	16.8	76.7	3.6	1.1	0.6	71.7	82.3
Iran, Islamic Rep. of	2011	829	25.8	7.2	48.9	25.8	16.0	1.4	0.8	25.2	26.3
	2015	545	30.9	11.5	43.5	30.9	12.1	1.3	0.7	23.4	37.6
Ireland	2011	654	71.3	1.8	19.9	71.3	6.1	0.9	0.0	63.5	77.9
	2015	623	78.1	0.6	15.4	78.1	5.4	0.5	0.0	70.5	84.8
Italy	2011	600	44.2	0.0	48.0	44.2	7.6	0.2	0.1	37.2	50.3
	2015	641	36.9	0.9	52.5	36.9	6.0	3.5	0.3	34.6	39.1
Japan	2011	629	82.4	1.7	12.2	82.4	3.6	0.0	0.0	79.1	85.4
	2015	634	79.5	1.0	14.5	79.5	4.4	0.5	0.1	76.6	82.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_02 (M051052): Number / Knowing Type: MC Key: C  
Label: Number closest in size to 5341

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	56.2	0.5	31.8	56.2	10.7	0.5	0.3	60.3	52.6
	2015	675	63.1	0.8	29.9	63.1	5.6	0.2	0.3	60.5	65.7
Korea, Rep. of	2011	617	81.2	1.2	12.1	81.2	5.4	0.0	0.0	77.5	84.5
	2015	665	82.7	0.0	12.7	82.7	4.3	0.3	0.0	77.1	88.1
Kuwait	2011	586	30.8	22.6	28.2	30.8	12.3	5.0	1.2	28.4	33.6
	2015	513	37.7	11.8	27.5	37.7	15.8	4.9	2.3	37.9	38.2
Lithuania	2011	680	61.9	0.3	32.0	61.9	5.2	0.5	0.0	60.1	63.6
	2015	652	66.6	1.6	26.3	66.6	4.9	0.6	0.0	63.4	70.1
Morocco	2011	998	39.1	6.7	42.9	39.1	11.3	0.0	0.0	41.6	37.0
	2015	711	45.1	4.4	36.3	45.1	10.7	2.8	0.7	48.8	41.9
Netherlands	2011	470	88.3	0.4	8.4	88.3	2.2	0.7	0.0	82.7	93.9
	2015	642	88.9	0.3	7.6	88.9	2.4	0.3	0.5	85.8	92.1
New Zealand	2011	801	67.7	0.8	19.7	67.7	10.9	0.6	0.3	62.0	73.0
	2015	898	70.8	1.7	16.7	70.8	9.9	0.9	0.1	66.9	74.5
Northern Ireland	2011	503	74.1	1.1	19.5	74.1	5.1	0.1	0.0	65.6	81.5
	2015	443	70.5	2.1	19.6	70.5	7.6	0.1	0.0	66.4	74.6
Oman	2011	1477	38.5	18.3	27.2	38.5	12.1	2.7	1.1	34.9	41.9
	2015	1288	43.2	17.7	28.2	43.2	8.6	1.7	0.7	40.4	46.0
Portugal	2011	574	55.2	2.2	35.4	55.2	6.1	0.9	0.1	50.1	59.9
	2015	666	58.9	0.9	35.8	58.9	3.9	0.3	0.2	51.5	65.8
Qatar	2011	587	40.0	13.3	35.0	40.0	11.2	0.4	0.1	37.3	42.5
	2015	743	37.9	14.3	36.3	37.9	9.8	0.9	0.8	34.4	41.6
Russian Federation	2011	645	57.2	0.5	37.2	57.2	4.4	0.6	0.1	53.1	61.3
	2015	695	62.4	0.3	33.4	62.4	3.4	0.4	0.2	57.5	67.3
Saudi Arabia	2011	657	36.9	18.9	34.5	36.9	9.0	0.8	0.0	34.7	39.1
	2015	632	33.4	17.1	33.3	33.4	13.0	2.3	0.9	30.8	35.8
Serbia	2011	621	68.3	0.1	28.0	68.3	2.4	1.0	0.2	67.0	69.4
	2015	573	64.3	0.9	28.2	64.3	5.1	0.9	0.4	60.5	67.9
Singapore	2011	910	61.9	2.0	30.5	61.9	5.7	0.0	0.0	61.2	62.5
	2015	923	65.7	2.2	26.7	65.7	5.3	0.1	0.0	60.6	70.4
Slovak Republic	2011	806	61.5	0.5	30.9	61.5	6.5	0.2	0.4	57.9	65.1
	2015	818	68.9	1.6	23.5	68.9	5.5	0.5	0.0	64.4	73.2
Slovenia	2011	628	63.0	1.0	27.4	63.0	8.3	0.4	0.0	57.1	68.0
	2015	643	68.8	0.6	23.5	68.8	6.0	0.9	0.1	65.5	71.8
Spain	2011	601	51.8	0.3	37.4	51.8	9.1	1.1	0.3	47.5	56.0
	2015	1119	52.3	0.0	39.6	52.3	7.1	0.3	0.7	46.9	57.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_02 (M051052): Number / Knowing Type: MC Key: C  
Label: Number closest in size to 5341

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	82.0	0.3	11.7	82.0	5.6	0.4	0.0	77.3	86.6
	2015	590	81.5	0.8	11.1	81.5	3.8	2.5	0.3	76.5	86.2
Turkey	2011	1073	53.7	5.7	27.3	53.7	12.5	0.5	0.4	47.9	58.6
	2015	930	49.5	4.3	31.4	49.5	14.2	0.5	0.0	41.9	56.0
United Arab Emirates	2011	2101	42.9	7.8	36.0	42.9	12.1	1.0	0.2	42.9	43.0
	2015	3024	49.0	7.4	32.3	49.0	9.5	1.8	0.1	49.6	48.5
United States	2011	1799	58.1	5.3	30.1	58.1	6.1	0.5	0.1	51.5	64.0
	2015	1428	59.6	5.6	29.3	59.6	3.8	1.2	0.5	51.0	68.4
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International Avg (n=40)	2011	30276	61.3	4.3	26.1	61.3	7.4	0.7	0.2	57.7	64.7
	2015	30684	63.0	3.4	25.4	63.0	6.9	1.1	0.3	58.8	67.1
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Ontario, Canada	2011	644	74.0	1.3	15.7	74.0	7.9	0.4	0.8	66.9	81.1
	2015	655	74.9	0.6	16.4	74.9	7.6	0.1	0.4	70.1	79.7
Quebec, Canada	2011	597	73.4	1.0	18.5	73.4	6.6	0.5	0.0	65.9	80.7
	2015	398	71.4	0.9	21.5	71.4	6.1	0.0	0.0	61.5	80.8
Norway (4)	2011	453	77.3	2.2	15.6	77.3	3.9	0.5	0.4	73.0	82.9
	2015	596	80.2	1.5	11.5	80.2	4.6	1.9	0.2	78.5	82.0
Abu Dhabi, UAE	2011	600	41.7	10.6	36.6	41.7	9.8	1.0	0.2	43.9	39.4
	2015	713	50.9	5.9	30.9	50.9	10.5	1.8	0.0	54.4	48.0
Dubai, UAE	2011	869	45.2	5.2	33.9	45.2	14.2	1.3	0.2	40.4	49.3
	2015	1071	56.3	5.8	29.9	56.3	6.4	1.5	0.2	52.5	59.9
Florida, US	2011	393	55.2	6.7	32.8	55.2	4.7	0.5	0.0	48.0	61.8
	2015	285	51.6	7.8	33.9	51.6	5.0	1.7	0.0	43.8	59.6
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_03 (M051049): Number / Applying      Type: MC      Key: B  
Label: Stickers bought by Mr. Brown

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	47.9	10.8	47.9	21.3	18.2	1.7	0.0	48.8	47.2
	2015	857	49.0	9.5	49.0	19.0	18.5	3.7	0.2	48.4	49.6
Bahrain	2011	585	28.3	16.1	28.3	18.7	32.8	4.0	0.2	27.6	29.1
	2015	593	32.5	18.3	32.5	18.1	28.1	2.9	0.0	30.6	34.3
Belgium (Flemish)	2011	685	81.0	4.0	81.0	7.2	7.3	0.5	0.0	79.3	82.3
	2015	777	75.0	6.1	75.0	7.4	9.9	1.4	0.2	78.4	71.3
Chile	2011	798	32.9	16.5	32.9	22.1	24.0	4.0	0.4	30.8	35.2
	2015	662	32.6	20.5	32.6	19.3	20.5	6.2	0.9	30.1	34.8
Chinese Taipei	2011	615	85.4	4.0	85.4	4.8	5.2	0.6	0.0	84.9	85.8
	2015	614	84.8	5.3	84.8	4.0	5.4	0.5	0.0	83.2	86.4
Croatia	2011	646	67.3	9.3	67.3	8.8	9.7	4.9	0.0	64.1	70.5
	2015	564	57.3	12.6	57.3	11.0	13.7	4.9	0.5	54.7	59.8
Czech Republic	2011	654	63.6	9.7	63.6	11.4	11.3	4.1	0.0	64.8	62.3
	2015	742	67.2	7.4	67.2	7.5	10.8	6.4	0.6	66.5	67.9
Denmark	2011	563	59.7	11.3	59.7	14.7	9.0	4.9	0.4	61.2	58.0
	2015	524	62.2	9.0	62.2	11.8	11.9	4.2	0.9	60.8	63.6
England	2011	471	60.8	7.5	60.8	14.6	14.8	2.3	0.0	62.3	59.3
	2015	571	62.1	7.5	62.1	12.5	15.4	2.5	0.0	64.8	59.3
Finland	2011	664	62.9	7.5	62.9	13.0	13.3	3.3	0.0	60.5	65.0
	2015	702	59.1	6.7	59.1	13.5	17.4	3.3	0.0	62.0	56.4
Georgia	2011	691	54.0	7.9	54.0	11.1	22.0	4.1	0.8	54.7	53.5
	2015	562	58.8	11.0	58.8	9.4	16.7	4.0	0.2	61.2	56.3
Germany	2011	573	73.9	3.1	73.9	8.3	11.6	2.9	0.3	72.8	75.0
	2015	561	69.4	5.1	69.4	8.9	12.7	4.0	0.0	68.8	69.8
Hong Kong SAR	2011	566	88.3	3.8	88.3	4.0	3.6	0.3	0.0	86.5	90.0
	2015	516	89.3	4.0	89.3	3.8	3.0	0.0	0.0	89.0	89.6
Hungary	2011	743	61.3	9.9	61.3	12.6	13.3	2.8	0.0	61.6	61.1
	2015	725	69.3	5.6	69.3	10.4	11.5	2.6	0.6	67.9	70.9
Iran, Islamic Rep. of	2011	829	46.0	15.3	46.0	13.9	20.2	3.8	0.8	45.4	46.6
	2015	545	36.4	13.5	36.4	13.9	26.5	9.1	0.7	32.1	40.2
Ireland	2011	654	64.9	7.8	64.9	15.3	10.5	1.5	0.0	59.0	69.9
	2015	623	69.1	7.2	69.1	11.4	10.9	1.4	0.0	65.9	71.9
Italy	2011	600	56.0	6.9	56.0	15.3	16.8	4.9	0.1	53.9	57.9
	2015	641	47.9	11.1	47.9	16.2	18.8	5.7	0.3	41.8	54.2
Japan	2011	629	87.1	3.2	87.1	4.7	4.9	0.0	0.0	86.9	87.3
	2015	634	83.2	4.5	83.2	5.9	5.1	1.1	0.1	82.9	83.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_03 (M051049): Number / Applying      Type: MC      Key: B  
Label: Stickers bought by Mr. Brown

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	68.1	9.2	68.1	7.4	12.8	1.9	0.6	69.2	67.1
	2015	675	68.4	9.7	68.4	6.9	13.3	1.4	0.3	71.2	65.7
Korea, Rep. of	2011	617	90.0	2.3	90.0	3.2	4.0	0.4	0.0	90.7	89.5
	2015	665	83.9	5.2	83.9	4.8	5.4	0.7	0.0	82.1	85.7
Kuwait	2011	586	19.9	19.3	19.9	17.9	34.3	7.4	1.3	18.4	21.6
	2015	513	26.5	19.1	26.5	15.5	28.5	8.0	2.5	24.3	28.7
Lithuania	2011	680	71.8	7.5	71.8	8.7	10.6	1.4	0.0	70.3	73.1
	2015	652	70.9	3.9	70.9	7.9	14.8	2.5	0.0	72.7	69.0
Morocco	2011	956	25.4	19.7	25.4	18.1	36.7	0.2	0.0	23.3	27.2
	2015	711	24.6	14.3	24.6	14.4	42.3	3.7	0.7	23.1	25.9
Netherlands	2011	470	74.5	7.2	74.5	10.0	7.4	0.9	0.0	71.5	77.5
	2015	642	70.7	8.4	70.7	10.1	9.0	1.2	0.7	67.3	74.0
New Zealand	2011	801	42.7	11.3	42.7	22.3	22.1	1.3	0.3	44.3	41.3
	2015	898	42.0	12.8	42.0	21.3	20.5	3.3	0.1	38.8	45.0
Northern Ireland	2011	503	70.7	7.5	70.7	8.4	12.8	0.6	0.0	71.0	70.4
	2015	442	70.9	9.0	70.9	8.0	12.1	0.0	0.0	71.9	70.0
Oman	2011	1477	24.1	21.3	24.1	13.7	33.8	5.5	1.5	22.7	25.4
	2015	1283	29.3	21.8	29.3	13.2	32.3	2.8	0.7	29.0	29.6
Portugal	2011	574	48.8	10.9	48.8	14.1	22.3	3.7	0.1	43.1	54.0
	2015	666	57.9	9.1	57.9	14.5	16.7	1.7	0.2	54.8	60.8
Qatar	2011	587	30.7	19.7	30.7	17.6	28.4	3.5	0.1	31.4	30.1
	2015	743	33.3	21.4	33.3	14.4	26.4	3.6	0.8	31.9	34.8
Russian Federation	2011	645	70.5	4.7	70.5	8.0	14.6	2.1	0.1	67.5	73.4
	2015	695	81.1	4.1	81.1	3.3	10.5	0.8	0.2	80.5	81.7
Saudi Arabia	2011	657	31.4	16.6	31.4	19.7	29.3	2.9	0.0	30.0	32.8
	2015	632	25.8	19.9	25.8	17.2	32.9	3.3	0.9	22.3	29.2
Serbia	2011	621	61.2	8.5	61.2	9.1	16.1	4.9	0.2	62.5	60.0
	2015	573	56.9	14.2	56.9	8.3	15.1	5.1	0.4	58.2	55.7
Singapore	2011	910	79.9	7.7	79.9	8.1	4.1	0.2	0.0	81.4	78.5
	2015	923	80.7	8.1	80.7	5.5	5.1	0.6	0.0	78.1	83.0
Slovak Republic	2011	806	69.5	9.0	69.5	8.8	10.2	2.2	0.4	67.3	71.7
	2015	818	57.8	11.5	57.8	11.5	16.4	2.8	0.0	56.7	58.8
Slovenia	2011	628	64.5	7.6	64.5	10.7	12.1	5.1	0.0	60.1	68.2
	2015	643	62.2	7.1	62.2	10.0	13.0	7.5	0.1	64.5	60.2
Spain	2011	601	42.4	11.1	42.4	16.2	20.8	9.2	0.3	40.4	44.3
	2015	1119	43.2	9.6	43.2	17.9	23.1	5.5	0.7	40.2	46.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_03 (M051049): Number / Applying      Type: MC      Key: B  
Label: Stickers bought by Mr. Brown

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	51.6	13.3	51.6	19.4	11.7	4.0	0.0	52.1	51.1
	2015	590	47.4	12.9	47.4	17.3	18.0	4.0	0.4	44.0	50.5
Turkey	2011	1073	48.1	17.9	48.1	13.6	17.1	2.7	0.5	45.1	50.7
	2015	930	46.0	21.4	46.0	14.4	14.8	3.4	0.0	44.3	47.4
United Arab Emirates	2011	2101	34.2	14.9	34.2	16.2	31.1	3.5	0.2	34.9	33.5
	2015	3024	36.6	16.9	36.6	14.6	28.0	3.8	0.1	35.8	37.4
United States	2011	1799	61.5	12.4	61.5	11.3	13.0	1.8	0.1	61.1	61.8
	2015	1428	61.4	12.6	61.4	10.2	12.8	2.5	0.5	61.9	60.9
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International Avg (n=40)	2011	30234	57.6	10.4	57.6	12.6	16.3	2.9	0.2	56.6	58.5
	2015	30678	57.1	10.9	57.1	11.6	16.7	3.3	0.4	56.1	58.0
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Ontario, Canada	2011	646	42.5	14.0	42.5	23.1	17.8	1.9	0.8	41.6	43.4
	2015	655	41.7	13.2	41.7	20.9	21.8	2.0	0.4	43.6	39.8
Quebec, Canada	2011	597	19.8	18.1	19.8	50.3	9.4	2.3	0.1	17.2	22.3
	2015	398	53.1	11.6	53.1	14.0	19.8	1.4	0.0	50.6	55.4
Norway (4)	2011	453	49.5	8.3	49.5	18.7	19.6	3.5	0.4	49.5	49.4
	2015	596	53.1	9.0	53.1	19.8	14.6	3.1	0.4	56.7	49.4
Abu Dhabi, UAE	2011	600	30.9	14.7	30.9	14.2	36.1	3.9	0.3	31.4	30.3
	2015	713	31.7	19.2	31.7	14.3	30.6	4.3	0.0	27.9	34.9
Dubai, UAE	2011	869	41.6	14.0	41.6	16.9	24.1	3.3	0.2	37.6	44.9
	2015	1071	50.4	13.9	50.4	12.9	19.8	2.8	0.2	49.8	50.9
Florida, US	2011	393	73.9	10.0	73.9	8.2	7.0	0.9	0.0	73.9	73.9
	2015	285	63.7	10.4	63.7	9.9	14.2	1.8	0.0	64.9	62.5
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_04 (M051045): Number / Applying Type: CR 1 Point  
Label: Time when the cake will be baked

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	41.6	4.9	52.1	1.4	0.1	41.6	39.7	43.4
	2015	857	45.6	4.9	48.2	1.0	0.3	45.6	40.3	51.4
Bahrain	2011	585	24.2	11.7	59.8	3.9	0.3	24.2	19.5	28.7
	2015	593	29.7	6.0	61.2	3.2	0.0	29.7	21.5	37.3
Belgium (Flemish)	2011	685	72.6	3.3	23.6	0.5	0.0	72.6	71.0	73.9
	2015	777	71.2	2.7	24.8	1.1	0.2	71.2	68.0	74.8
Chile	2011	798	30.2	4.6	60.2	4.4	0.7	30.2	22.7	38.2
	2015	669	29.9	7.2	54.2	6.6	2.1	29.9	27.2	32.3
Chinese Taipei	2011	615	82.8	1.0	15.7	0.5	0.0	82.8	82.7	82.9
	2015	614	82.3	0.8	15.7	1.3	0.0	82.3	83.4	81.2
Croatia	2011	646	46.9	1.8	46.7	4.6	0.0	46.9	39.1	55.0
	2015	564	52.4	1.4	41.1	4.6	0.5	52.4	43.9	60.8
Czech Republic	2011	654	62.0	2.2	30.9	5.0	0.0	62.0	55.8	67.8
	2015	741	64.0	2.4	28.6	4.4	0.6	64.0	57.2	70.2
Denmark	2011	563	61.1	4.7	29.9	3.8	0.6	61.1	55.7	66.8
	2015	524	66.3	2.6	27.2	2.7	1.2	66.3	60.4	72.1
England	2011	471	58.0	3.6	37.0	1.4	0.0	58.0	54.9	60.9
	2015	571	56.5	6.6	35.0	1.9	0.0	56.5	52.6	60.6
Finland	2011	664	66.6	3.3	26.8	3.3	0.0	66.6	60.9	71.6
	2015	702	66.0	2.9	28.3	2.9	0.0	66.0	67.5	64.6
Georgia	2011	691	39.3	8.4	37.5	13.6	1.2	39.3	39.0	39.4
	2015	562	38.8	6.6	44.4	9.7	0.4	38.8	34.9	42.8
Germany	2011	573	69.4	5.2	23.1	2.0	0.3	69.4	61.8	76.9
	2015	561	66.8	7.2	24.3	1.7	0.0	66.8	57.3	75.2
Hong Kong SAR	2011	566	74.0	1.2	24.5	0.3	0.0	74.0	71.5	76.2
	2015	516	79.7	0.5	18.6	1.1	0.0	79.7	76.9	82.6
Hungary	2011	743	55.4	4.5	35.9	3.9	0.2	55.4	52.5	57.8
	2015	725	60.0	4.0	31.9	3.5	0.6	60.0	51.4	69.5
Iran, Islamic Rep. of	2011	829	25.4	4.3	52.4	17.2	0.8	25.4	16.9	33.2
	2015	545	32.3	4.6	50.3	11.9	0.9	32.3	29.7	34.5
Ireland	2011	654	52.1	8.8	38.6	0.5	0.0	52.1	49.0	54.6
	2015	623	63.0	6.0	30.6	0.4	0.0	63.0	58.6	66.8
Italy	2011	600	38.8	11.4	44.0	5.7	0.2	38.8	29.7	46.8
	2015	641	38.2	9.9	43.3	8.3	0.3	38.2	25.1	51.4
Japan	2011	629	77.5	1.8	20.4	0.3	0.0	77.5	75.3	79.5
	2015	634	74.1	0.6	24.1	1.1	0.1	74.1	73.5	74.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M09\_04 (M051045): Number / Applying Type: CR 1 Point  
Label: Time when the cake will be baked

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	621	48.7	4.2	40.8	5.9	0.3	48.7	46.6	50.6
	2015	675	56.6	4.4	37.6	0.9	0.6	56.6	55.5	57.6
Korea, Rep. of	2011	617	79.5	0.9	19.5	0.0	0.0	79.5	73.5	84.7
	2015	665	80.2	0.7	19.1	0.0	0.0	80.2	73.3	87.0
Kuwait	2011	589	7.8	4.7	71.8	14.2	1.5	7.8	5.2	10.9
	2015	513	15.3	3.0	64.6	14.2	2.8	15.3	14.2	16.2
Lithuania	2011	680	69.0	1.5	27.9	1.7	0.0	69.0	64.6	73.0
	2015	652	68.5	2.3	27.6	1.5	0.0	68.5	67.0	70.2
Morocco	2011	1114	6.2	6.9	53.1	32.2	1.5	6.2	5.5	6.8
	2015	711	14.8	7.5	63.1	13.9	0.7	14.8	9.0	19.8
Netherlands	2011	470	72.3	3.0	24.3	0.4	0.0	72.3	64.9	79.6
	2015	642	70.6	1.5	26.3	1.0	0.7	70.6	64.0	77.3
New Zealand	2011	801	37.5	3.6	57.6	1.1	0.3	37.5	35.8	39.1
	2015	898	39.6	2.6	55.1	2.5	0.2	39.6	34.9	44.0
Northern Ireland	2011	503	66.2	4.9	28.7	0.2	0.0	66.2	60.9	70.8
	2015	447	66.9	2.4	30.1	0.2	0.4	66.9	66.0	67.8
Oman	2011	1477	10.7	5.5	71.1	10.7	1.9	10.7	9.1	12.3
	2015	1291	18.3	8.5	67.4	5.1	0.7	18.3	18.0	18.7
Portugal	2011	574	43.2	12.4	41.7	2.5	0.1	43.2	35.9	49.9
	2015	666	45.0	13.2	38.0	3.6	0.2	45.0	36.7	52.9
Qatar	2011	587	25.3	5.5	62.0	6.9	0.4	25.3	18.1	31.6
	2015	743	24.1	5.5	63.8	5.8	0.9	24.1	18.4	30.0
Russian Federation	2011	645	63.8	5.6	27.6	2.9	0.1	63.8	56.2	71.2
	2015	695	73.5	1.8	23.0	1.4	0.2	73.5	71.9	75.2
Saudi Arabia	2011	657	16.3	5.4	70.6	7.7	0.0	16.3	10.6	22.3
	2015	634	15.7	2.4	67.7	13.1	1.1	15.7	12.4	18.8
Serbia	2011	620	62.7	1.4	29.7	5.8	0.4	62.7	57.5	67.3
	2015	573	61.7	2.4	26.9	8.6	0.4	61.7	55.8	67.2
Singapore	2011	910	73.8	2.9	23.2	0.1	0.0	73.8	72.1	75.3
	2015	923	77.5	2.0	20.3	0.2	0.0	77.5	74.8	80.0
Slovak Republic	2011	806	55.0	5.6	35.8	3.2	0.4	55.0	48.2	62.2
	2015	818	59.9	3.3	32.4	4.3	0.0	59.9	55.6	63.9
Slovenia	2011	628	54.3	7.5	33.8	4.4	0.0	54.3	45.5	61.8
	2015	643	57.8	5.3	32.8	3.5	0.7	57.8	52.0	63.0
Spain	2011	601	33.8	13.4	43.6	8.9	0.3	33.8	25.1	42.2
	2015	1119	43.8	8.8	42.6	3.7	1.1	43.8	37.3	50.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_04 (M051045): Number / Applying Type: CR 1 Point  
Label: Time when the cake will be baked

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	57.1	2.4	35.4	4.7	0.4	57.1	52.3	61.8
	2015	590	54.8	3.7	38.0	2.9	0.6	54.8	49.5	59.9
Turkey	2011	1073	37.8	9.3	47.1	5.3	0.5	37.8	33.0	41.9
	2015	930	44.0	9.4	42.8	3.8	0.0	44.0	34.5	52.1
United Arab Emirates	2011	2101	23.1	5.5	63.9	7.2	0.3	23.1	18.8	27.4
	2015	3024	31.1	4.5	58.0	6.2	0.2	31.1	25.4	36.1
United States	2011	1799	49.3	3.3	46.7	0.6	0.2	49.3	45.0	53.1
	2015	1428	51.8	3.3	42.9	1.2	0.7	51.8	48.0	55.7
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International Avg (n=40)	2011	30390	49.3	5.1	40.4	5.0	0.3	49.3	44.6	53.7
	2015	30699	52.2	4.4	38.8	4.1	0.5	52.2	47.6	56.7
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Ontario, Canada	2011	646	45.6	3.6	47.7	1.7	1.4	45.6	41.4	49.9
	2015	656	40.2	2.8	54.3	2.0	0.7	40.2	35.1	45.3
Quebec, Canada	2011	596	49.6	7.6	40.3	2.2	0.2	49.6	43.9	55.3
	2015	398	49.0	8.4	40.8	1.7	0.1	49.0	39.2	58.3
Norway (4)	2011	453	42.4	4.4	48.4	4.4	0.4	42.4	35.4	51.4
	2015	596	50.2	4.0	39.8	5.4	0.6	50.2	47.2	53.2
Abu Dhabi, UAE	2011	600	17.9	6.7	70.1	4.8	0.5	17.9	12.7	23.4
	2015	713	25.1	3.2	64.1	7.4	0.3	25.1	17.9	31.2
Dubai, UAE	2011	869	34.9	4.6	54.7	5.5	0.3	34.9	28.1	40.5
	2015	1071	48.5	5.0	43.1	3.2	0.2	48.5	42.4	54.3
Florida, US	2011	393	47.8	1.9	49.0	1.1	0.2	47.8	40.5	54.4
	2015	285	53.2	2.3	42.9	1.7	0.0	53.2	48.6	57.8
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_05 (M051098): Number / Knowing      Type: MC      Key: D  
Label: Fraction equivalent to 4/10

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	34.8	20.2	36.1	7.9	34.8	0.9	0.1	32.4	36.9
	2015	857	35.8	18.6	35.6	6.3	35.8	3.4	0.3	30.5	41.7
Bahrain	2011	585	18.9	27.5	46.9	4.2	18.9	2.0	0.3	13.3	24.3
	2015	593	30.5	21.3	42.4	4.7	30.5	1.1	0.0	27.0	33.8
Belgium (Flemish)	2011	685	60.0	14.2	21.3	4.2	60.0	0.3	0.0	62.6	58.0
	2015	777	64.8	15.2	16.0	2.9	64.8	0.8	0.3	64.2	65.5
Chile	2011	798	19.8	21.1	49.7	5.8	19.8	2.4	1.2	18.2	21.6
	2015	669	24.0	19.6	46.4	4.9	24.0	2.6	2.5	21.2	26.5
Chinese Taipei	2011	615	69.9	9.6	16.9	3.3	69.9	0.3	0.0	65.2	73.9
	2015	614	62.2	10.6	23.0	4.0	62.2	0.2	0.0	59.3	65.1
Croatia	2011	646	20.3	10.1	36.5	10.4	20.3	22.7	0.0	15.4	25.5
	2015	564	22.9	12.2	36.8	14.0	22.9	13.6	0.5	22.4	23.4
Czech Republic	2011	654	26.7	16.1	30.8	8.4	26.7	18.0	0.0	25.5	27.8
	2015	741	35.4	18.0	27.1	6.4	35.4	12.5	0.7	33.2	37.4
Denmark	2011	563	38.0	18.5	27.7	5.6	38.0	9.3	0.9	30.0	46.4
	2015	524	37.5	16.4	33.3	3.8	37.5	7.4	1.7	36.4	38.5
England	2011	471	43.3	19.1	28.7	6.8	43.3	2.0	0.0	40.0	46.5
	2015	571	50.0	18.0	22.9	7.3	50.0	1.5	0.2	44.3	56.1
Finland	2011	664	39.3	23.6	26.5	8.6	39.3	2.0	0.0	35.5	42.7
	2015	702	36.2	23.7	29.7	6.5	36.2	3.9	0.0	34.2	38.0
Georgia	2011	691	40.2	12.5	29.2	7.2	40.2	8.9	2.0	38.7	41.5
	2015	562	32.8	17.3	29.5	7.7	32.8	12.3	0.4	31.1	34.5
Germany	2011	573	25.0	16.1	31.9	8.4	25.0	18.4	0.3	24.8	25.2
	2015	561	26.1	17.2	30.5	5.6	26.1	20.6	0.0	22.9	29.0
Hong Kong SAR	2011	566	73.9	8.6	13.4	3.3	73.9	0.8	0.0	67.5	79.6
	2015	516	84.9	5.5	6.9	2.4	84.9	0.3	0.0	84.8	85.0
Hungary	2011	743	40.9	20.8	23.3	9.1	40.9	5.3	0.6	40.0	41.7
	2015	725	44.3	19.8	21.2	8.5	44.3	5.6	0.7	43.0	45.8
Iran, Islamic Rep. of	2011	829	34.2	12.7	38.6	6.0	34.2	7.5	1.1	28.3	39.6
	2015	545	34.3	12.0	41.9	5.7	34.3	5.3	0.9	30.6	37.6
Ireland	2011	654	41.0	19.4	25.0	11.2	41.0	3.3	0.0	35.8	45.4
	2015	623	57.1	17.8	17.9	5.3	57.1	1.8	0.1	50.6	62.9
Italy	2011	600	33.1	24.7	35.6	3.0	33.1	3.4	0.2	30.0	35.9
	2015	641	33.1	25.4	32.5	4.6	33.1	3.9	0.5	27.8	38.4
Japan	2011	629	47.6	14.5	31.5	4.4	47.6	2.0	0.0	41.4	53.1
	2015	634	42.0	16.9	35.3	5.1	42.0	0.5	0.1	41.7	42.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_05 (M051098): Number / Knowing      Type: MC      Key: D  
Label: Fraction equivalent to 4/10

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	42.4	16.8	32.2	4.2	42.4	3.7	0.7	42.3	42.6
	2015	675	49.2	16.2	26.3	6.6	49.2	1.1	0.6	48.4	50.0
Korea, Rep. of	2011	617	35.9	24.5	34.5	4.9	35.9	0.2	0.0	31.2	39.8
	2015	665	40.4	27.0	25.6	6.5	40.4	0.4	0.0	34.9	45.7
Kuwait	2011	586	15.1	18.3	54.4	5.0	15.1	5.3	1.8	13.8	16.7
	2015	513	24.4	21.8	36.9	7.2	24.4	6.9	2.8	20.9	26.8
Lithuania	2011	680	29.0	27.8	36.0	2.3	29.0	5.0	0.0	23.1	34.3
	2015	652	26.1	32.7	34.2	3.2	26.1	3.7	0.0	21.6	31.0
Morocco	2011	918	17.5	13.3	56.1	13.1	17.5	0.0	0.0	12.7	21.5
	2015	711	25.4	13.8	43.4	12.1	25.4	4.3	1.0	21.4	28.8
Netherlands	2011	470	68.1	10.2	16.1	4.9	68.1	0.7	0.0	63.7	72.5
	2015	642	58.6	16.4	16.1	6.3	58.6	1.9	0.7	56.3	60.5
New Zealand	2011	801	36.4	19.2	33.8	9.0	36.4	1.3	0.3	37.8	35.2
	2015	898	33.8	18.6	37.5	7.6	33.8	2.2	0.4	31.9	35.6
Northern Ireland	2011	503	57.9	15.6	21.8	3.9	57.9	0.8	0.0	59.5	56.5
	2015	441	63.7	13.1	20.1	2.6	63.7	0.4	0.0	63.5	63.9
Oman	2011	1477	23.0	14.4	48.3	7.8	23.0	3.8	2.6	18.9	27.0
	2015	1280	35.7	16.7	37.6	6.9	35.7	2.4	0.8	36.1	35.3
Portugal	2011	574	33.6	26.2	29.1	5.7	33.6	5.2	0.1	24.4	42.1
	2015	666	55.4	16.7	23.7	2.8	55.4	1.1	0.3	56.1	54.8
Qatar	2011	587	21.4	22.4	46.4	6.7	21.4	2.7	0.4	22.7	20.3
	2015	743	25.5	24.8	39.3	6.9	25.5	2.4	1.1	21.0	30.1
Russian Federation	2011	645	43.2	14.5	28.1	8.0	43.2	6.0	0.1	38.3	48.0
	2015	695	49.8	15.5	25.0	5.6	49.8	4.0	0.2	49.0	50.6
Saudi Arabia	2011	656	29.1	22.0	36.9	10.0	29.1	1.6	0.5	26.9	31.3
	2015	632	24.6	28.0	35.1	7.7	24.6	3.4	1.2	23.0	26.1
Serbia	2011	621	40.5	14.5	31.9	4.9	40.5	7.6	0.5	42.9	38.4
	2015	573	38.1	18.8	25.6	7.7	38.1	8.6	1.2	37.2	38.8
Singapore	2011	909	83.8	5.2	8.2	2.4	83.8	0.5	0.0	83.3	84.2
	2015	923	84.3	4.7	7.2	3.5	84.3	0.3	0.0	83.5	85.1
Slovak Republic	2011	806	34.8	16.3	30.7	8.2	34.8	9.5	0.4	33.9	35.7
	2015	818	33.1	17.4	28.2	9.9	33.1	11.3	0.1	31.9	34.2
Slovenia	2011	627	39.8	17.0	29.6	4.9	39.8	8.6	0.0	34.8	44.1
	2015	643	37.0	24.4	25.7	3.9	37.0	8.0	1.0	35.3	38.5
Spain	2011	601	22.0	16.2	45.8	4.9	22.0	10.7	0.3	18.3	25.7
	2015	1119	24.8	19.9	43.5	7.1	24.8	3.6	1.1	21.4	27.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_05 (M051098): Number / Knowing      Type: MC      Key: D  
Label: Fraction equivalent to 4/10

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	26.2	22.8	30.8	7.7	26.2	11.8	0.7	24.7	27.7
	2015	590	27.2	20.4	33.7	7.2	27.2	11.0	0.6	25.8	28.6
Turkey	2011	1073	27.8	18.3	46.4	5.0	27.8	2.1	0.5	23.2	31.8
	2015	930	27.2	20.8	43.4	7.1	27.2	1.5	0.0	24.9	29.1
United Arab Emirates	2011	2101	30.1	18.9	39.9	6.6	30.1	4.1	0.4	29.3	31.0
	2015	3024	31.8	18.0	40.9	5.6	31.8	3.2	0.4	31.5	32.1
United States	2011	1799	56.6	14.7	20.8	5.8	56.6	1.9	0.3	56.0	57.1
	2015	1428	60.7	12.6	19.1	5.0	60.7	1.8	0.8	61.8	59.7
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International Avg (n=40)	2011	30193	38.0	17.5	32.7	6.3	38.0	5.1	0.4	35.2	40.7
	2015	30680	40.8	18.1	29.9	6.1	40.8	4.5	0.6	38.6	42.9
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Ontario, Canada	2011	646	31.4	19.4	35.6	9.5	31.4	2.7	1.4	31.2	31.6
	2015	656	35.3	20.6	32.0	9.4	35.3	1.7	1.0	35.4	35.3
Quebec, Canada	2011	597	37.3	16.8	38.0	5.5	37.3	2.1	0.2	31.7	42.7
	2015	397	41.3	17.0	36.3	4.1	41.3	1.1	0.2	42.6	40.1
Norway (4)	2011	453	41.1	15.4	24.9	11.7	41.1	6.1	0.8	37.3	46.1
	2015	596	47.9	14.9	22.4	8.2	47.9	5.7	1.0	52.3	43.3
Abu Dhabi, UAE	2011	600	24.6	21.2	43.1	6.4	24.6	4.1	0.5	24.9	24.4
	2015	713	27.0	18.6	41.0	8.7	27.0	4.5	0.3	27.4	26.6
Dubai, UAE	2011	869	34.4	18.9	36.1	6.2	34.4	4.0	0.4	29.1	38.8
	2015	1071	46.4	16.5	30.9	4.4	46.4	1.2	0.6	44.8	48.0
Florida, US	2011	393	59.9	10.9	22.2	5.0	59.9	1.4	0.5	62.4	57.6
	2015	285	66.4	7.4	22.6	2.5	66.4	1.1	0.0	61.0	71.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_06 (M051030): Number / Applying      Type: CR    1 Point  
Label: Fraction of the cake left

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
<hr/>									
Australia	2011	875	17.4	76.5	6.0	0.1	17.4	15.5	19.0
	2015	857	20.1	75.4	4.0	0.5	20.1	19.5	20.7
<hr/>									
Bahrain	2011	585	11.5	81.1	7.1	0.3	11.5	10.8	12.1
	2015	593	15.8	78.7	5.6	0.0	15.8	16.2	15.4
<hr/>									
Belgium (Flemish)	2011	685	34.2	63.3	2.5	0.0	34.2	31.7	36.2
	2015	777	36.6	58.9	4.2	0.3	36.6	33.6	39.8
<hr/>									
Chile	2011	798	7.3	81.5	10.0	1.2	7.3	6.5	8.2
	2015	669	6.4	79.9	11.0	2.8	6.4	6.0	6.8
<hr/>									
Chinese Taipei	2011	615	58.2	39.9	1.9	0.0	58.2	54.7	61.2
	2015	614	52.6	42.2	5.2	0.0	52.6	48.0	57.2
<hr/>									
Croatia	2011	646	2.5	53.1	44.4	0.0	2.5	2.4	2.6
	2015	564	5.2	63.9	30.3	0.5	5.2	5.3	5.2
<hr/>									
Czech Republic	2011	654	9.2	60.6	30.1	0.1	9.2	8.8	9.5
	2015	741	15.6	62.0	21.6	0.7	15.6	15.7	15.6
<hr/>									
Denmark	2011	563	21.9	63.9	13.1	1.0	21.9	22.8	21.1
	2015	524	21.7	66.3	9.2	2.8	21.7	21.2	22.1
<hr/>									
England	2011	471	25.2	67.9	6.9	0.0	25.2	23.9	26.5
	2015	571	27.0	68.7	4.0	0.2	27.0	25.5	28.5
<hr/>									
Finland	2011	664	35.0	58.1	6.9	0.0	35.0	31.7	38.0
	2015	702	34.3	58.3	7.3	0.1	34.3	28.5	39.4
<hr/>									
Georgia	2011	691	8.9	59.2	29.8	2.1	8.9	10.4	7.7
	2015	562	7.5	61.2	30.8	0.5	7.5	8.7	6.3
<hr/>									
Germany	2011	573	3.8	64.1	31.8	0.3	3.8	3.5	4.1
	2015	561	6.7	61.8	31.3	0.2	6.7	5.6	7.6
<hr/>									
Hong Kong SAR	2011	566	54.1	44.0	1.9	0.0	54.1	48.9	58.6
	2015	516	60.0	38.8	1.0	0.2	60.0	56.1	64.0
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Hungary	2011	743	10.9	74.8	13.5	0.8	10.9	7.6	13.7
	2015	725	12.2	77.1	10.1	0.7	12.2	10.2	14.4
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Iran, Islamic Rep. of	2011	829	21.6	60.7	16.2	1.4	21.6	20.8	22.5
	2015	545	18.3	62.7	17.7	1.2	18.3	19.2	17.6
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Ireland	2011	654	31.2	65.9	2.9	0.0	31.2	23.2	38.0
	2015	623	41.6	55.2	3.0	0.1	41.6	37.0	45.7
<hr/>									
Italy	2011	600	13.7	69.9	16.2	0.2	13.7	15.9	11.9
	2015	640	11.0	69.0	19.4	0.5	11.0	10.6	11.3
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Japan	2011	629	26.0	70.7	3.3	0.0	26.0	21.5	30.0
	2015	634	25.3	70.6	4.0	0.1	25.3	26.5	24.0

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_06 (M051030): Number / Applying      Type: CR    1 Point  
Label: Fraction of the cake left

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	19.7	70.6	9.2	0.5	19.7	20.1	19.2
	2015	675	21.7	74.5	3.3	0.6	21.7	22.3	21.1
Korea, Rep. of	2011	617	28.1	69.9	2.1	0.0	28.1	21.7	33.5
	2015	665	33.1	64.7	2.1	0.0	33.1	27.9	38.2
Kuwait	2011	589	8.7	71.7	17.4	2.2	8.7	10.0	7.1
	2015	513	2.1	76.3	18.2	3.4	2.1	1.1	3.1
Lithuania	2011	680	15.1	71.5	13.4	0.0	15.1	16.7	13.6
	2015	652	12.7	73.1	14.2	0.0	12.7	13.6	11.7
Morocco	2011	1115	2.6	60.4	34.1	3.0	2.6	2.5	2.7
	2015	711	6.0	77.4	15.6	1.0	6.0	5.5	6.4
Netherlands	2011	470	18.2	79.1	2.8	0.0	18.2	15.1	21.2
	2015	642	14.3	81.2	3.7	0.8	14.3	11.8	17.2
New Zealand	2011	801	12.9	83.3	3.3	0.4	12.9	11.5	14.3
	2015	898	18.7	76.4	4.4	0.5	18.7	16.9	20.4
Northern Ireland	2011	503	35.6	60.1	4.2	0.0	35.6	31.7	39.0
	2015	447	47.7	49.6	2.3	0.4	47.7	44.1	51.1
Oman	2011	1477	7.9	80.0	9.5	2.6	7.9	8.9	7.0
	2015	1291	14.9	78.6	5.8	0.8	14.9	17.2	12.5
Portugal	2011	574	21.3	64.3	14.2	0.1	21.3	17.2	25.0
	2015	666	36.5	57.1	6.1	0.3	36.5	32.2	40.5
Qatar	2011	587	11.8	80.2	7.6	0.4	11.8	11.1	12.3
	2015	743	13.1	79.1	6.7	1.1	13.1	12.2	14.0
Russian Federation	2011	645	16.8	67.6	15.5	0.1	16.8	16.8	16.8
	2015	695	23.6	65.7	10.6	0.2	23.6	21.7	25.4
Saudi Arabia	2011	657	12.8	76.7	10.0	0.5	12.8	10.5	15.3
	2015	634	8.1	71.2	19.5	1.2	8.1	9.9	6.4
Serbia	2011	620	16.9	58.0	24.6	0.5	16.9	16.1	17.5
	2015	573	18.0	55.2	25.6	1.2	18.0	21.2	15.0
Singapore	2011	910	79.3	20.4	0.3	0.0	79.3	78.8	79.6
	2015	923	82.2	17.2	0.5	0.0	82.2	81.3	83.1
Slovak Republic	2011	806	9.7	69.1	20.8	0.4	9.7	11.1	8.3
	2015	818	6.2	65.4	28.3	0.2	6.2	6.0	6.3
Slovenia	2011	628	8.4	71.9	19.3	0.4	8.4	9.5	7.4
	2015	643	13.0	67.0	18.7	1.3	13.0	12.3	13.6
Spain	2011	601	8.2	65.4	26.1	0.3	8.2	8.5	7.8
	2015	1119	7.5	73.6	17.7	1.1	7.5	6.6	8.4

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_06 (M051030): Number / Applying      Type: CR    1 Point  
Label: Fraction of the cake left

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	7.8	65.4	25.8	1.1	7.8	5.5	10.0
	2015	590	8.7	73.8	16.3	1.2	8.7	9.4	8.1
Turkey	2011	1072	12.0	79.4	8.1	0.5	12.0	12.6	11.5
	2015	930	8.7	83.2	8.0	0.1	8.7	7.5	9.8
United Arab Emirates	2011	2101	11.0	77.7	10.8	0.5	11.0	11.6	10.5
	2015	3024	14.8	76.7	8.0	0.5	14.8	14.1	15.4
United States	2011	1799	31.5	66.2	1.5	0.8	31.5	30.0	32.8
	2015	1428	41.5	55.3	2.2	0.9	41.5	40.9	42.1
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International Avg (n=40)	2011	30391	19.7	66.6	13.1	0.5	19.7	18.4	20.8
	2015	30698	21.8	66.1	11.5	0.7	21.8	20.7	22.8
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Ontario, Canada	2011	646	15.1	78.3	4.8	1.8	15.1	15.3	14.8
	2015	656	11.9	82.4	4.3	1.4	11.9	12.2	11.7
Quebec, Canada	2011	596	22.2	71.7	5.7	0.5	22.2	19.2	25.1
	2015	398	25.4	70.6	3.7	0.3	25.4	26.3	24.6
Norway (4)	2011	453	9.7	75.2	14.3	0.8	9.7	9.6	9.9
	2015	596	12.6	74.0	11.9	1.5	12.6	14.0	11.2
Abu Dhabi, UAE	2011	600	9.8	80.8	8.6	0.8	9.8	10.3	9.2
	2015	713	9.1	82.3	8.2	0.4	9.1	9.2	9.1
Dubai, UAE	2011	869	12.3	77.7	9.6	0.4	12.3	11.9	12.6
	2015	1071	25.7	68.5	5.3	0.6	25.7	25.6	25.8
Florida, US	2011	393	31.8	64.3	3.3	0.7	31.8	30.3	33.1
	2015	285	43.6	54.0	2.4	0.0	43.6	41.4	45.8
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M09\_07 (M051502): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Rule to sort the shapes

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	39.0	12.8	27.6	18.4	39.0	1.9	0.3	40.5	37.7
	2015	857	37.7	13.0	26.0	16.9	37.7	5.8	0.7	35.6	40.0
Bahrain	2011	585	20.8	26.8	29.5	17.0	20.8	5.4	0.5	24.8	17.0
	2015	593	22.9	24.6	27.6	20.8	22.9	4.2	0.0	27.3	18.8
Belgium (Flemish)	2011	685	41.7	17.7	15.1	23.9	41.7	1.6	0.0	39.9	43.2
	2015	777	44.5	17.6	12.9	22.2	44.5	2.4	0.3	46.2	42.7
Chile	2011	798	27.1	27.4	18.5	21.1	27.1	3.9	1.9	25.9	28.4
	2015	669	26.0	27.4	20.6	18.5	26.0	3.9	3.6	27.6	24.6
Chinese Taipei	2011	615	48.6	12.8	16.8	20.6	48.6	1.3	0.0	46.1	50.7
	2015	614	47.5	12.2	16.6	22.0	47.5	1.7	0.0	46.7	48.2
Croatia	2011	646	32.5	16.1	25.6	22.0	32.5	3.7	0.0	32.7	32.3
	2015	564	34.5	11.0	27.6	22.1	34.5	3.9	0.9	34.7	34.3
Czech Republic	2011	654	36.8	17.4	23.5	18.1	36.8	4.1	0.1	35.7	37.9
	2015	741	45.1	17.0	20.5	12.3	45.1	4.3	0.7	48.1	42.4
Denmark	2011	563	29.2	24.3	14.9	25.8	29.2	4.6	1.2	31.1	27.2
	2015	524	28.9	21.3	15.4	25.7	28.9	5.6	3.1	30.8	27.0
England	2011	471	42.6	13.0	23.7	17.5	42.6	3.1	0.1	46.2	39.3
	2015	571	45.3	13.7	23.5	13.9	45.3	3.2	0.2	46.6	44.0
Finland	2011	664	37.9	13.6	27.8	16.5	37.9	4.3	0.0	44.9	31.8
	2015	702	40.8	15.3	26.9	14.0	40.8	3.0	0.1	40.6	40.9
Georgia	2011	690	26.6	20.9	19.9	20.7	26.6	9.1	2.8	28.4	25.0
	2015	562	23.8	27.8	21.3	19.3	23.8	7.1	0.9	26.1	21.4
Germany	2011	573	37.1	14.6	22.9	20.8	37.1	3.9	0.6	36.2	38.0
	2015	561	36.6	16.9	20.8	18.0	36.6	7.4	0.2	34.7	38.5
Hong Kong SAR	2011	566	43.7	14.8	18.5	21.7	43.7	1.2	0.0	40.6	46.4
	2015	516	43.8	21.5	14.6	18.9	43.8	1.1	0.2	43.5	44.0
Hungary	2011	743	41.8	15.8	21.0	16.0	41.8	4.7	0.8	46.5	37.9
	2015	725	45.8	11.9	19.3	16.5	45.8	5.8	0.7	44.9	46.7
Iran, Islamic Rep. of	2011	829	24.0	16.3	28.9	20.6	24.0	8.7	1.6	24.1	23.9
	2015	545	24.9	14.9	17.7	28.6	24.9	11.3	2.6	28.2	22.0
Ireland	2011	654	44.3	14.8	21.8	16.6	44.3	2.6	0.0	46.7	42.2
	2015	623	41.3	13.9	27.4	15.1	41.3	2.1	0.1	44.3	38.7
Italy	2011	600	35.8	22.3	22.5	15.0	35.8	4.2	0.2	35.3	36.3
	2015	641	33.2	21.6	24.3	15.1	33.2	5.1	0.8	29.4	36.9
Japan	2011	629	52.0	12.1	16.6	18.0	52.0	1.3	0.0	52.8	51.2
	2015	634	50.7	12.2	15.0	20.7	50.7	1.3	0.1	49.6	52.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_07 (M051502): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Rule to sort the shapes

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	624	25.6	18.5	29.2	22.1	25.6	3.7	0.8	27.7	23.8
	2015	675	36.9	14.8	24.5	21.4	36.9	1.8	0.6	37.6	36.3
Korea, Rep. of	2011	617	52.7	11.1	16.3	19.1	52.7	0.9	0.0	51.2	54.0
	2015	665	57.4	12.2	14.1	15.1	57.4	1.1	0.0	56.4	58.5
Kuwait	2011	576	12.6	21.3	32.9	18.0	12.6	12.8	2.3	15.6	9.0
	2015	512	12.8	23.9	28.4	15.9	12.8	15.5	3.4	14.4	11.4
Lithuania	2011	680	28.1	19.8	27.0	21.1	28.1	4.0	0.0	28.2	28.0
	2015	652	33.9	18.8	26.5	17.6	33.9	3.2	0.0	35.7	31.9
Morocco	2011	901	20.5	24.2	24.7	30.6	20.5	0.0	0.0	23.3	18.2
	2015	709	20.6	24.9	21.1	24.3	20.6	7.1	2.0	19.9	21.2
Netherlands	2011	470	29.9	23.7	14.3	30.6	29.9	1.3	0.2	28.9	30.8
	2015	642	25.7	24.1	16.0	29.6	25.7	3.7	0.9	27.4	24.2
New Zealand	2011	801	27.2	22.4	28.0	19.0	27.2	2.9	0.6	29.4	25.1
	2015	898	30.9	21.1	28.6	15.7	30.9	3.2	0.5	30.3	31.4
Northern Ireland	2011	503	43.6	18.1	22.0	14.4	43.6	1.9	0.0	39.5	47.1
	2015	437	46.2	16.3	22.3	14.9	46.2	0.4	0.0	45.2	47.2
Oman	2011	1477	19.6	21.1	23.1	26.9	19.6	6.2	3.1	24.7	14.7
	2015	1284	23.5	18.1	25.9	26.3	23.5	5.1	1.1	24.7	22.2
Portugal	2011	574	33.1	21.5	26.1	15.7	33.1	3.3	0.2	31.7	34.4
	2015	666	39.0	18.9	26.0	12.7	39.0	2.9	0.4	37.8	40.2
Qatar	2011	587	22.4	22.9	31.4	19.3	22.4	3.4	0.6	25.7	19.5
	2015	743	24.9	25.5	24.2	18.4	24.9	5.7	1.3	27.2	22.4
Russian Federation	2011	645	35.0	9.0	29.0	22.5	35.0	4.3	0.1	37.1	33.0
	2015	695	37.3	9.6	28.1	21.8	37.3	3.1	0.2	38.5	36.0
Saudi Arabia	2011	655	20.4	23.9	25.5	25.2	20.4	4.0	1.0	24.3	16.3
	2015	634	18.7	28.6	26.0	18.0	18.7	7.4	1.3	22.3	15.2
Serbia	2011	621	35.2	17.6	25.5	17.0	35.2	4.1	0.6	33.1	37.1
	2015	573	37.3	16.3	18.2	21.9	37.3	4.9	1.4	36.9	37.7
Singapore	2011	910	41.9	18.1	20.9	18.2	41.9	0.8	0.0	40.6	43.1
	2015	923	42.3	19.9	21.5	16.1	42.3	0.2	0.0	42.6	42.1
Slovak Republic	2011	806	29.5	18.7	29.7	18.2	29.5	3.5	0.4	29.6	29.3
	2015	818	32.4	21.5	28.5	14.7	32.4	2.6	0.4	31.3	33.3
Slovenia	2011	625	42.6	21.2	18.1	12.7	42.6	5.0	0.4	43.5	41.8
	2015	643	42.6	18.6	18.7	15.3	42.6	3.4	1.4	42.7	42.6
Spain	2011	601	28.5	24.6	22.0	18.3	28.5	6.3	0.3	28.5	28.5
	2015	1119	37.1	18.6	20.0	18.6	37.1	4.3	1.3	36.1	38.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_07 (M051502): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Rule to sort the shapes

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	31.9	18.4	25.8	20.4	31.9	1.9	1.6	36.4	27.6
	2015	590	35.5	16.2	26.5	13.4	35.5	7.0	1.4	34.4	36.5
Turkey	2011	0	.	.	.	.	.	.	.	.	.
	2015	0	.	.	.	.	.	.	.	.	.
United Arab Emirates	2011	2101	21.9	22.2	30.9	19.8	21.9	4.6	0.6	23.2	20.6
	2015	3024	25.8	23.7	27.5	18.2	25.8	4.2	0.6	27.7	24.1
United States	2011	1799	39.5	17.2	25.6	13.6	39.5	3.2	0.9	39.1	39.8
	2015	1428	41.3	14.9	25.0	15.5	41.3	2.4	0.9	41.4	41.3
-----											
International Avg (n=39)	2011	29089	33.4	18.7	23.7	19.8	33.4	3.8	0.6	34.3	32.5
	2015	29749	35.3	18.5	22.4	18.6	35.3	4.3	0.9	35.8	34.8
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Ontario, Canada	2011	646	39.1	18.1	23.5	14.3	39.1	2.0	2.9	37.1	41.1
	2015	656	38.4	22.3	21.5	15.2	38.4	0.9	1.6	39.3	37.6
Quebec, Canada	2011	597	30.3	18.7	28.8	15.4	30.3	6.2	0.6	29.6	31.0
	2015	391	34.6	16.0	27.5	18.1	34.6	3.5	0.4	39.8	29.5
Norway (4)	2011	453	33.5	19.2	29.2	14.8	33.5	2.2	1.2	35.4	31.0
	2015	596	31.5	16.9	29.4	16.9	31.5	3.5	1.8	26.7	36.5
Abu Dhabi, UAE	2011	600	21.0	20.9	30.8	22.1	21.0	4.2	0.9	22.2	19.8
	2015	713	24.5	22.7	26.2	21.8	24.5	4.4	0.4	24.7	24.4
Dubai, UAE	2011	869	25.5	22.3	29.8	18.5	25.5	3.5	0.4	24.9	25.9
	2015	1071	34.7	20.1	25.2	15.8	34.7	3.2	1.0	36.3	33.1
Florida, US	2011	393	34.3	17.1	33.3	12.8	34.3	1.6	1.0	30.7	37.5
	2015	285	41.8	18.6	19.5	18.7	41.8	1.1	0.3	45.8	37.6
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_08 (M051224): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: Shape with a right angle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	72.2	72.2	15.2	3.4	7.6	1.3	0.4	68.8	75.2
	2015	857	73.6	73.6	16.8	2.4	5.5	0.9	0.8	72.9	74.4
Bahrain	2011	585	43.6	43.6	19.3	8.9	23.7	3.0	1.5	43.7	43.4
	2015	593	52.5	52.5	23.4	6.5	14.6	2.7	0.1	56.6	48.8
Belgium (Flemish)	2011	685	80.6	80.6	11.1	1.4	6.6	0.2	0.0	80.4	80.7
	2015	777	77.6	77.6	13.6	0.8	7.1	0.5	0.4	77.7	77.4
Chile	2011	798	54.7	54.7	17.4	5.7	18.3	1.3	2.6	51.1	58.6
	2015	669	44.4	44.4	17.6	5.2	26.1	2.9	3.8	41.0	47.4
Chinese Taipei	2011	615	87.1	87.1	4.6	0.8	6.7	0.8	0.0	89.3	85.2
	2015	614	91.5	91.5	2.1	1.4	3.9	1.2	0.0	91.1	91.9
Croatia	2011	646	85.4	85.4	5.0	1.1	8.1	0.4	0.0	83.6	87.2
	2015	564	82.1	82.1	5.9	0.3	10.3	0.4	0.9	79.2	85.0
Czech Republic	2011	654	55.0	55.0	12.4	4.6	24.5	3.1	0.4	51.2	58.6
	2015	741	55.2	55.2	13.8	2.9	24.3	3.0	0.7	53.0	57.4
Denmark	2011	563	71.2	71.2	8.2	1.6	13.8	3.3	1.9	70.3	72.2
	2015	524	69.8	69.8	11.4	2.1	10.6	2.3	3.8	73.7	66.0
England	2011	471	78.1	78.1	8.4	1.4	10.6	1.2	0.3	79.9	76.4
	2015	571	79.2	79.2	9.6	1.6	7.9	1.4	0.4	73.4	85.3
Finland	2011	664	53.5	53.5	24.6	4.0	15.6	2.3	0.0	54.5	52.6
	2015	702	52.5	52.5	22.4	2.7	18.3	3.7	0.3	55.1	50.2
Georgia	2011	690	41.4	41.4	36.9	8.8	6.9	2.7	3.3	39.3	43.2
	2015	562	41.1	41.1	43.7	5.7	6.0	2.3	1.2	40.3	41.8
Germany	2011	573	58.2	58.2	13.6	4.9	17.4	5.2	0.6	57.7	58.8
	2015	561	59.5	59.5	15.6	3.0	15.1	6.6	0.2	62.0	57.2
Hong Kong SAR	2011	566	91.9	91.9	2.3	1.0	3.7	1.0	0.0	92.7	91.2
	2015	516	92.6	92.6	1.5	1.7	3.0	1.0	0.2	93.2	92.0
Hungary	2011	743	67.7	67.7	10.9	5.1	12.1	3.2	0.9	67.5	67.9
	2015	725	70.0	70.0	11.1	4.9	11.0	2.4	0.7	69.5	70.4
Iran, Islamic Rep. of	2011	829	74.8	74.8	9.8	3.8	7.6	2.2	1.8	77.2	72.5
	2015	545	67.2	67.2	12.6	4.7	8.5	3.4	3.7	68.3	66.1
Ireland	2011	654	76.5	76.5	10.6	2.8	9.2	0.7	0.2	76.6	76.5
	2015	623	76.2	76.2	11.7	2.1	9.7	0.3	0.1	76.7	75.7
Italy	2011	600	78.0	78.0	9.2	2.0	9.3	1.0	0.5	81.2	75.1
	2015	641	76.0	76.0	9.2	1.8	10.6	1.5	0.9	71.9	80.1
Japan	2011	629	80.0	80.0	6.7	1.9	10.6	0.6	0.1	80.9	79.1
	2015	634	76.6	76.6	9.5	2.4	10.4	0.9	0.3	79.8	72.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_08 (M051224): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: Shape with a right angle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	48.2	48.2	31.3	2.7	16.2	0.8	0.8	43.1	52.5
	2015	675	61.8	61.8	21.4	2.6	13.1	0.6	0.6	61.6	61.9
Korea, Rep. of	2011	617	96.3	96.3	2.1	0.5	0.9	0.1	0.0	96.4	96.2
	2015	665	96.0	96.0	2.1	0.9	1.1	0.0	0.0	96.8	95.2
Kuwait	2011	578	32.0	32.0	21.1	13.5	21.1	9.3	3.0	35.5	27.7
	2015	512	36.3	36.3	21.0	13.9	18.7	6.2	3.9	35.9	36.9
Lithuania	2011	680	58.6	58.6	11.0	3.3	25.9	1.1	0.0	58.0	59.2
	2015	652	72.1	72.1	8.2	1.6	17.9	0.2	0.0	75.8	68.0
Morocco	2011	912	52.7	52.7	16.1	12.2	19.0	0.0	0.0	48.9	55.8
	2015	709	51.4	51.4	17.7	5.5	18.6	4.7	2.1	48.2	54.1
Netherlands	2011	470	21.2	21.2	45.8	11.0	21.1	0.6	0.2	21.9	20.5
	2015	642	21.7	21.7	41.3	8.8	25.1	1.8	1.3	18.3	25.6
New Zealand	2011	801	45.3	45.3	32.3	5.2	14.5	2.0	0.7	41.8	48.5
	2015	898	47.8	47.8	28.1	5.2	15.5	2.7	0.6	45.9	49.5
Northern Ireland	2011	503	81.5	81.5	7.2	2.0	9.1	0.2	0.0	78.9	83.8
	2015	443	81.9	81.9	9.5	1.3	7.2	0.0	0.0	79.7	84.0
Oman	2011	1477	42.8	42.8	20.5	12.1	18.8	2.5	3.3	45.3	40.5
	2015	1288	54.4	54.4	20.0	8.3	14.3	1.7	1.3	56.8	51.9
Portugal	2011	574	76.2	76.2	9.1	2.2	11.6	0.4	0.4	77.6	75.0
	2015	666	80.2	80.2	10.5	0.5	7.1	1.3	0.4	78.3	82.1
Qatar	2011	587	36.0	36.0	19.3	15.8	27.2	1.2	0.6	32.6	39.0
	2015	743	39.6	39.6	25.7	10.0	21.8	1.1	1.9	42.0	37.1
Russian Federation	2011	645	63.5	63.5	10.7	4.2	20.0	1.2	0.3	62.0	65.1
	2015	695	73.8	73.8	7.6	1.4	15.9	1.0	0.3	78.3	69.1
Saudi Arabia	2011	656	39.9	39.9	21.9	9.3	27.7	0.1	1.0	41.0	38.8
	2015	632	42.6	42.6	22.3	9.9	21.2	2.1	1.9	45.6	39.8
Serbia	2011	621	38.0	38.0	16.1	6.4	35.7	2.9	0.8	40.8	35.6
	2015	573	45.8	45.8	18.3	4.5	28.4	1.4	1.6	46.0	45.6
Singapore	2011	910	85.7	85.7	7.0	2.7	4.0	0.5	0.2	84.7	86.6
	2015	923	87.2	87.2	6.6	1.2	4.6	0.4	0.0	86.8	87.5
Slovak Republic	2011	806	50.6	50.6	16.7	4.6	26.7	1.1	0.4	48.0	53.2
	2015	818	53.2	53.2	17.9	6.8	18.9	2.5	0.7	48.7	57.4
Slovenia	2011	628	34.3	34.3	18.5	11.5	32.7	2.4	0.6	30.1	37.8
	2015	643	36.2	36.2	18.0	10.4	31.0	2.6	1.8	37.2	35.4
Spain	2011	601	59.5	59.5	13.6	4.8	19.5	1.9	0.6	57.7	61.2
	2015	1119	65.3	65.3	8.3	3.3	20.2	1.2	1.6	66.4	64.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_08 (M051224): Geometric Shapes and Measures / Knowing      Type: MC      Key: A  
Label: Shape with a right angle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	36.0	36.0	20.3	14.3	24.8	2.8	1.8	32.5	39.4
	2015	590	49.3	49.3	19.0	6.1	16.9	6.3	2.4	50.4	48.3
Turkey	2011	1073	68.1	68.1	10.2	3.1	17.5	0.6	0.5	68.8	67.4
	2015	930	76.0	76.0	6.1	2.7	14.7	0.2	0.3	79.7	72.8
United Arab Emirates	2011	2101	44.1	44.1	19.3	9.4	24.0	2.5	0.7	45.0	43.2
	2015	3024	47.5	47.5	20.0	9.4	19.7	2.5	0.8	47.8	47.3
United States	2011	1799	74.8	74.8	9.3	1.7	8.8	4.1	1.2	72.0	77.4
	2015	1428	79.3	79.3	8.5	1.9	7.0	1.7	1.6	78.1	80.6
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International Avg (n=40)	2011	30180	60.9	60.9	15.1	5.4	16.0	1.8	0.8	60.2	61.5
	2015	30687	63.4	63.4	15.2	4.2	14.0	2.0	1.1	63.5	63.4
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Ontario, Canada	2011	646	66.0	66.0	16.5	3.7	8.3	2.4	3.0	65.5	66.5
	2015	655	76.0	76.0	12.6	1.7	6.9	0.9	2.0	75.5	76.4
Quebec, Canada	2011	597	80.7	80.7	7.0	2.4	7.7	1.4	0.7	79.3	82.1
	2015	398	80.3	80.3	7.9	5.0	5.0	0.8	1.0	86.0	74.8
Norway (4)	2011	453	43.6	43.6	13.4	7.7	31.4	2.6	1.2	44.2	42.9
	2015	596	43.5	43.5	12.9	8.1	31.2	2.4	2.0	38.8	48.3
Abu Dhabi, UAE	2011	600	38.7	38.7	19.3	11.1	26.9	3.0	0.9	40.0	37.3
	2015	713	41.5	41.5	22.0	13.8	18.8	3.4	0.5	39.9	42.8
Dubai, UAE	2011	869	50.1	50.1	16.5	8.0	21.8	3.2	0.4	50.1	50.0
	2015	1071	66.9	66.9	11.9	4.3	14.2	1.6	1.2	69.2	64.7
Florida, US	2011	393	80.6	80.6	8.6	1.5	7.0	1.2	1.2	78.5	82.5
	2015	285	83.5	83.5	5.7	1.0	7.9	1.2	0.6	82.3	84.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_09 (M051207): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Shape with 2 kinds of symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	63.7	4.1	63.7	18.2	10.9	2.8	0.4	65.2	62.3
	2015	857	64.2	4.1	64.2	15.4	9.9	5.5	0.8	62.2	66.5
Bahrain	2011	585	45.0	7.3	45.0	30.8	11.0	4.4	1.5	47.3	42.9
	2015	593	41.3	11.8	41.3	24.6	19.1	3.1	0.1	39.6	42.9
Belgium (Flemish)	2011	685	55.4	7.1	55.4	26.9	7.2	3.3	0.0	55.1	55.7
	2015	777	53.9	8.5	53.9	26.9	6.3	4.0	0.4	51.8	56.3
Chile	2011	798	35.3	10.1	35.3	38.5	9.3	4.0	2.6	32.2	38.6
	2015	668	39.6	9.2	39.6	30.4	13.2	3.9	3.8	40.3	38.9
Chinese Taipei	2011	615	52.2	4.8	52.2	22.1	19.3	1.7	0.0	57.7	47.4
	2015	614	56.7	5.5	56.7	20.1	15.6	2.1	0.0	55.9	57.6
Croatia	2011	646	30.2	5.3	30.2	32.0	10.6	21.8	0.0	29.9	30.6
	2015	564	29.5	6.5	29.5	36.2	15.1	11.7	0.9	26.2	32.8
Czech Republic	2011	654	72.5	3.0	72.5	14.9	4.3	4.6	0.7	74.5	70.6
	2015	741	73.4	2.2	73.4	12.7	4.6	6.3	0.8	74.4	72.4
Denmark	2011	563	77.8	3.1	77.8	9.0	5.0	3.1	1.9	76.8	78.9
	2015	524	72.9	3.6	72.9	9.0	6.2	4.5	3.9	75.5	70.4
England	2011	471	74.2	3.7	74.2	11.3	7.2	3.1	0.5	70.8	77.4
	2015	571	70.4	3.5	70.4	12.3	11.1	2.3	0.4	68.4	72.5
Finland	2011	664	50.7	4.9	50.7	24.6	13.2	6.6	0.0	52.0	49.5
	2015	702	58.0	6.0	58.0	21.3	11.0	3.4	0.3	62.5	53.9
Georgia	2011	691	42.3	6.8	42.3	31.5	6.7	9.2	3.5	43.0	41.7
	2015	561	38.5	11.6	38.5	32.0	7.1	9.1	1.7	41.2	35.8
Germany	2011	573	62.7	3.8	62.7	13.9	6.6	12.4	0.6	62.8	62.7
	2015	561	56.8	5.9	56.8	16.8	9.6	10.7	0.2	54.7	58.5
Hong Kong SAR	2011	566	73.9	2.6	73.9	11.3	9.8	2.3	0.0	72.1	75.6
	2015	516	70.8	2.8	70.8	12.7	12.1	1.4	0.2	68.0	73.6
Hungary	2011	743	58.2	2.2	58.2	23.0	8.6	7.0	1.0	62.8	54.3
	2015	725	66.4	3.2	66.4	20.1	5.3	4.0	1.0	68.3	64.3
Iran, Islamic Rep. of	2011	829	50.6	7.0	50.6	22.6	11.5	6.4	1.9	50.6	50.7
	2015	545	46.5	6.7	46.5	24.0	12.2	6.8	3.8	54.8	39.2
Ireland	2011	654	63.7	5.7	63.7	17.4	11.4	1.6	0.2	65.1	62.6
	2015	623	70.1	5.3	70.1	14.4	9.1	0.9	0.1	70.5	69.9
Italy	2011	600	55.7	6.0	55.7	24.1	6.6	7.2	0.5	55.4	56.0
	2015	641	50.4	6.0	50.4	29.4	6.7	6.5	1.1	50.0	50.8
Japan	2011	629	55.6	5.5	55.6	21.8	11.2	5.8	0.1	54.0	57.0
	2015	634	49.0	5.3	49.0	26.6	13.8	5.1	0.3	51.4	46.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_09 (M051207): Geometric Shapes and Measures / Knowing Type: MC Key: B  
Label: Shape with 2 kinds of symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	38.2	8.5	38.2	36.8	12.9	2.8	0.8	39.3	37.2
	2015	675	42.1	5.0	42.1	45.5	5.5	1.2	0.6	46.3	38.0
Korea, Rep. of	2011	617	92.4	2.1	92.4	3.2	1.9	0.3	0.0	93.2	91.8
	2015	665	88.6	2.5	88.6	5.0	3.5	0.4	0.0	89.0	88.2
Kuwait	2011	576	40.4	8.5	40.4	26.0	10.0	11.9	3.2	42.5	37.8
	2015	512	37.7	10.6	37.7	22.7	15.4	9.6	4.1	37.5	38.5
Lithuania	2011	680	68.0	4.2	68.0	20.2	4.6	3.1	0.0	69.3	66.9
	2015	652	72.5	2.5	72.5	16.7	3.1	5.1	0.0	75.7	69.2
Morocco	2011	873	67.7	6.8	67.7	19.7	5.8	0.0	0.0	68.4	67.1
	2015	712	59.1	2.8	59.1	24.1	5.4	6.6	2.1	58.7	59.5
Netherlands	2011	470	33.3	13.6	33.3	35.7	14.5	2.5	0.4	36.4	30.3
	2015	642	33.6	10.4	33.6	33.6	16.7	4.4	1.3	33.7	33.7
New Zealand	2011	801	50.8	7.0	50.8	20.0	19.1	2.1	0.9	53.8	48.1
	2015	898	55.5	8.4	55.5	15.2	17.6	2.8	0.6	58.7	52.5
Northern Ireland	2011	503	69.3	4.3	69.3	13.7	9.1	3.6	0.0	73.4	65.8
	2015	442	71.4	4.0	71.4	16.0	7.7	0.8	0.0	71.9	70.9
Oman	2011	1477	49.4	7.2	49.4	22.5	12.6	5.1	3.4	50.2	48.5
	2015	1283	41.9	9.0	41.9	32.5	12.3	2.9	1.3	43.3	40.6
Portugal	2011	574	45.9	5.9	45.9	30.2	10.5	7.2	0.4	47.0	44.8
	2015	666	45.4	6.1	45.4	26.6	9.2	12.2	0.4	42.4	48.2
Qatar	2011	587	53.9	7.7	53.9	20.5	14.1	3.0	0.8	53.0	54.7
	2015	743	47.5	7.3	47.5	25.2	14.6	3.5	1.9	51.9	43.0
Russian Federation	2011	645	53.2	3.8	53.2	31.6	5.3	5.7	0.3	55.7	50.8
	2015	695	52.7	3.6	52.7	33.2	5.4	4.8	0.4	53.7	51.6
Saudi Arabia	2011	654	47.8	10.5	47.8	25.6	13.1	1.9	1.0	46.3	49.3
	2015	631	44.4	13.2	44.4	22.2	13.3	5.0	1.9	49.1	39.9
Serbia	2011	621	40.1	5.1	40.1	28.9	7.4	17.2	1.2	43.7	37.0
	2015	573	36.3	7.1	36.3	37.6	5.0	12.6	1.6	36.9	35.6
Singapore	2011	910	75.8	3.8	75.8	13.1	6.8	0.3	0.2	73.9	77.5
	2015	923	73.8	5.0	73.8	11.9	8.9	0.4	0.0	72.7	74.9
Slovak Republic	2011	806	57.8	6.1	57.8	21.6	8.1	5.9	0.4	59.3	56.4
	2015	818	46.5	7.4	46.5	26.8	13.4	5.2	0.7	44.1	48.7
Slovenia	2011	623	68.5	1.3	68.5	18.8	6.0	4.8	0.7	73.6	64.1
	2015	643	67.3	3.4	67.3	19.0	4.2	4.4	1.8	70.8	64.2
Spain	2011	601	38.7	6.3	38.7	32.9	9.7	11.8	0.6	41.2	36.4
	2015	1119	46.3	8.2	46.3	29.1	8.3	6.3	1.8	44.8	47.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M09\_09 (M051207): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Shape with 2 kinds of symmetry

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	31.4	10.5	31.4	33.8	14.2	8.1	2.0	31.9	30.9
	2015	589	25.7	11.1	25.7	34.7	17.8	7.8	2.9	25.6	25.8
Turkey	2011	1073	50.7	7.2	50.7	24.5	15.0	2.2	0.5	54.1	47.7
	2015	930	51.2	11.2	51.2	21.5	13.9	1.9	0.4	52.7	49.9
United Arab Emirates	2011	2101	50.1	9.1	50.1	21.5	13.7	4.8	0.8	49.9	50.4
	2015	3024	51.8	8.6	51.8	21.4	13.3	3.8	1.1	53.9	50.0
United States	2011	1799	69.7	3.9	69.7	11.6	9.3	4.0	1.5	70.7	68.8
	2015	1428	64.4	6.0	64.4	14.9	10.7	2.3	1.7	67.4	61.2
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International Avg (n=40)	2011	30133	55.3	5.9	55.3	22.7	9.9	5.4	0.9	56.4	54.4
	2015	30680	54.1	6.5	54.1	23.0	10.3	4.9	1.2	54.9	53.4
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Ontario, Canada	2011	646	68.9	2.9	68.9	13.9	8.6	2.7	3.0	68.9	68.8
	2015	652	65.3	4.4	65.3	17.0	10.6	0.7	2.0	63.6	67.1
Quebec, Canada	2011	597	47.4	9.6	47.4	27.4	8.4	6.5	0.7	46.4	48.4
	2015	391	43.7	7.0	43.7	33.2	11.2	3.9	1.0	51.8	35.5
Norway (4)	2011	453	40.2	7.6	40.2	33.3	13.3	4.5	1.2	41.3	38.7
	2015	596	43.9	9.4	43.9	25.7	13.2	5.8	2.0	41.1	46.9
Abu Dhabi, UAE	2011	600	52.6	9.7	52.6	20.0	12.5	4.2	1.1	52.6	52.6
	2015	713	50.4	10.6	50.4	20.5	13.7	3.9	0.9	52.2	48.9
Dubai, UAE	2011	869	51.0	6.0	51.0	20.8	17.0	4.8	0.4	51.1	50.8
	2015	1071	57.8	4.5	57.8	20.5	12.5	3.5	1.2	59.1	56.6
Florida, US	2011	393	77.2	3.7	77.2	10.3	6.0	1.7	1.2	79.4	75.1
	2015	285	70.2	4.6	70.2	15.8	8.4	0.4	0.6	77.5	62.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_10 (M051427): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Find the perimeter of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	39.2	21.5	16.6	39.2	21.0	1.3	0.4	38.9	39.5
	2015	857	28.9	29.7	16.8	28.9	22.1	1.4	1.2	28.3	29.5
Bahrain	2011	585	22.7	31.1	27.0	22.7	14.6	2.7	1.8	23.0	22.3
	2015	593	22.6	36.0	20.7	22.6	19.3	0.9	0.5	23.5	21.7
Belgium (Flemish)	2011	685	64.8	21.0	5.5	64.8	8.4	0.2	0.0	62.4	66.7
	2015	777	64.9	22.6	2.8	64.9	8.9	0.4	0.5	65.9	63.9
Chile	2011	798	20.3	31.0	24.8	20.3	18.8	1.9	3.2	20.1	20.5
	2015	668	21.6	27.4	23.2	21.6	21.2	2.1	4.4	22.5	20.9
Chinese Taipei	2011	615	58.1	18.8	5.4	58.1	17.1	0.6	0.0	61.0	55.5
	2015	614	59.1	21.3	3.2	59.1	15.7	0.6	0.0	59.9	58.4
Croatia	2011	646	46.9	14.3	10.9	46.9	26.6	1.1	0.1	49.1	44.6
	2015	564	45.6	19.0	12.5	45.6	20.4	1.5	1.1	45.9	45.3
Czech Republic	2011	654	43.8	28.2	9.9	43.8	16.2	1.2	0.7	38.9	48.4
	2015	741	43.8	26.3	9.1	43.8	18.1	1.7	0.9	36.9	50.2
Denmark	2011	563	64.1	14.5	4.8	64.1	12.2	2.2	2.2	61.0	67.4
	2015	524	59.1	12.2	6.6	59.1	15.6	2.0	4.5	59.6	58.7
England	2011	471	46.4	18.5	11.6	46.4	22.0	1.0	0.5	47.6	45.3
	2015	571	41.1	20.1	12.9	41.1	24.4	0.9	0.6	39.6	42.6
Finland	2011	664	49.9	20.7	11.3	49.9	16.6	1.0	0.4	49.3	50.4
	2015	702	42.0	30.7	10.1	42.0	14.1	2.6	0.4	50.4	34.4
Georgia	2011	691	49.8	14.5	11.2	49.8	19.1	1.8	3.6	50.9	48.8
	2015	561	41.0	14.5	15.9	41.0	24.8	1.4	2.3	41.3	40.7
Germany	2011	573	39.4	37.7	10.3	39.4	10.4	1.5	0.6	39.5	39.4
	2015	561	25.8	47.5	14.8	25.8	8.4	3.0	0.5	26.2	25.5
Hong Kong SAR	2011	566	57.1	8.0	3.9	57.1	30.8	0.2	0.0	57.2	57.0
	2015	516	61.1	7.7	2.3	61.1	28.6	0.2	0.2	54.7	67.4
Hungary	2011	743	51.1	24.8	9.2	51.1	12.9	0.9	1.1	53.5	49.2
	2015	725	46.4	22.9	10.2	46.4	17.9	1.3	1.3	43.4	49.8
Iran, Islamic Rep. of	2011	829	40.6	20.2	13.4	40.6	20.2	3.2	2.4	38.7	42.3
	2015	545	28.4	31.3	18.7	28.4	14.0	2.8	4.8	30.8	26.2
Ireland	2011	654	34.7	22.6	16.7	34.7	24.7	1.2	0.2	35.3	34.1
	2015	623	41.8	19.2	10.2	41.8	28.1	0.5	0.3	40.0	43.3
Italy	2011	600	38.0	24.2	19.6	38.0	15.5	2.2	0.5	37.9	38.2
	2015	641	30.2	29.6	23.5	30.2	14.9	0.6	1.3	27.7	32.7
Japan	2011	629	37.3	48.7	4.3	37.3	9.0	0.3	0.3	37.8	36.9
	2015	634	29.9	51.0	8.1	29.9	9.5	1.1	0.4	30.2	29.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_10 (M051427): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Find the perimeter of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	625	52.3	13.2	8.1	52.3	23.9	1.2	1.3	57.9	47.4
	2015	675	59.8	11.3	7.6	59.8	19.7	1.0	0.6	59.1	60.6
Korea, Rep. of	2011	617	65.5	12.4	3.6	65.5	18.3	0.2	0.0	65.5	65.6
	2015	665	52.0	28.8	4.7	52.0	14.3	0.2	0.0	52.8	51.3
Kuwait	2011	582	17.0	31.1	29.4	17.0	12.6	6.4	3.5	14.7	19.8
	2015	513	16.4	37.8	26.0	16.4	8.9	6.2	4.7	12.1	21.1
Lithuania	2011	680	62.1	7.7	6.8	62.1	22.9	0.3	0.1	63.8	60.5
	2015	652	56.4	8.2	7.2	56.4	27.0	1.2	0.1	57.7	54.9
Morocco	2011	914	25.6	39.7	24.2	25.6	10.5	0.0	0.0	26.5	24.8
	2015	711	26.0	32.3	24.7	26.0	11.2	3.2	2.6	25.2	26.7
Netherlands	2011	470	52.6	21.8	8.9	52.6	15.4	0.9	0.4	52.5	52.7
	2015	642	56.2	18.7	6.7	56.2	16.4	0.7	1.3	53.4	58.7
New Zealand	2011	801	22.7	36.8	24.9	22.7	13.4	1.4	0.9	19.1	26.0
	2015	898	24.6	34.8	25.4	24.6	12.0	2.4	0.8	22.9	26.1
Northern Ireland	2011	503	55.1	13.6	7.8	55.1	22.4	1.1	0.0	51.5	58.2
	2015	441	56.2	13.0	9.6	56.2	21.1	0.0	0.0	55.3	57.1
Oman	2011	1477	25.9	33.5	18.4	25.9	15.7	2.9	3.6	24.6	27.2
	2015	1289	30.9	29.5	21.5	30.9	15.0	1.7	1.4	31.6	30.2
Portugal	2011	574	53.1	12.1	9.8	53.1	23.5	0.3	1.2	47.3	58.4
	2015	666	41.3	22.9	12.0	41.3	22.5	0.7	0.6	45.0	37.8
Qatar	2011	587	19.4	33.5	28.1	19.4	16.2	1.5	1.3	16.4	22.2
	2015	743	19.4	34.9	28.4	19.4	13.8	1.1	2.5	20.5	18.2
Russian Federation	2011	645	62.0	9.0	7.0	62.0	21.1	0.6	0.3	62.5	61.5
	2015	695	65.5	6.4	3.9	65.5	23.1	0.5	0.5	62.0	68.9
Saudi Arabia	2011	656	25.6	35.1	22.9	25.6	13.7	1.7	1.0	23.4	27.8
	2015	632	18.9	43.0	22.0	18.9	11.9	1.8	2.4	20.2	17.6
Serbia	2011	621	47.5	14.8	9.2	47.5	24.7	1.9	1.9	47.3	47.5
	2015	573	46.7	16.5	10.5	46.7	22.6	1.5	2.2	50.2	43.3
Singapore	2011	910	66.0	7.8	5.2	66.0	20.4	0.3	0.2	67.3	64.8
	2015	923	66.2	7.7	5.9	66.2	19.4	0.7	0.0	67.6	65.0
Slovak Republic	2011	806	45.3	23.9	11.8	45.3	17.0	1.2	0.7	42.4	48.4
	2015	818	36.8	29.1	13.6	36.8	17.5	1.9	0.9	34.9	38.6
Slovenia	2011	628	34.9	34.5	14.5	34.9	13.4	2.0	0.6	33.2	36.4
	2015	643	26.9	43.8	13.3	26.9	11.6	2.7	1.8	29.9	24.2
Spain	2011	601	24.6	40.6	17.7	24.6	11.9	4.3	0.9	23.5	25.7
	2015	1119	26.2	34.4	19.3	26.2	16.9	1.0	2.2	23.3	28.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M09\_10 (M051427): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Find the perimeter of the triangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	52.7	18.9	8.5	52.7	16.5	1.5	2.0	53.2	52.2
	2015	590	51.4	18.8	8.8	51.4	13.4	4.3	3.3	48.1	54.5
Turkey	2011	1073	37.9	18.8	15.3	37.9	26.5	0.9	0.6	35.9	39.6
	2015	930	34.3	24.4	17.5	34.3	22.4	0.6	0.8	32.7	35.7
United Arab Emirates	2011	2101	25.7	29.3	26.8	25.7	14.8	2.2	1.2	24.8	26.6
	2015	3024	27.7	27.9	22.2	27.7	17.8	3.2	1.2	29.4	26.1
United States	2011	1799	40.6	15.0	15.5	40.6	26.2	1.3	1.5	39.2	41.9
	2015	1428	38.2	20.6	16.1	38.2	21.0	2.3	1.8	39.8	36.5
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International Avg (n=40)	2011	30187	43.0	23.1	13.5	43.0	17.9	1.5	1.0	42.4	43.5
	2015	30687	40.3	25.3	13.7	40.3	17.6	1.6	1.4	40.0	40.6
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Ontario, Canada	2011	646	32.8	25.9	13.1	32.8	23.8	1.2	3.2	32.6	33.0
	2015	655	25.9	27.1	15.8	25.9	28.8	0.4	2.0	23.6	28.3
Quebec, Canada	2011	597	35.3	30.1	15.7	35.3	16.8	1.1	1.0	31.0	39.6
	2015	398	29.3	31.8	17.6	29.3	19.1	1.2	1.0	25.1	33.4
Norway (4)	2011	453	42.3	20.9	12.5	42.3	20.8	2.3	1.2	39.3	46.2
	2015	596	37.7	26.0	13.7	37.7	17.6	2.8	2.2	37.1	38.3
Abu Dhabi, UAE	2011	600	24.2	29.3	28.5	24.2	14.1	2.6	1.2	24.7	23.6
	2015	713	22.8	30.6	27.4	22.8	12.8	5.2	1.2	23.2	22.5
Dubai, UAE	2011	869	30.7	29.6	24.5	30.7	12.6	2.0	0.7	27.5	33.4
	2015	1071	38.3	25.4	13.7	38.3	20.1	1.3	1.2	38.5	38.0
Florida, US	2011	393	35.7	16.9	15.8	35.7	29.2	1.2	1.2	36.2	35.2
	2015	285	37.9	17.7	16.7	37.9	25.6	1.5	0.6	40.3	35.3
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M09\_l1 (M051533): Geometric Shapes and Measures / Reasoning      Type: CR      1 Point  
Label: How many books will fill the box

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	41.0	56.2	1.8	0.9	41.0	34.8	46.5
	2015	857	42.0	55.4	1.2	1.4	42.0	33.3	51.5
Bahrain	2011	585	22.7	69.8	5.1	2.3	22.7	19.9	25.5
	2015	593	19.7	76.7	2.4	1.1	19.7	16.1	23.1
Belgium (Flemish)	2011	685	60.8	38.7	0.3	0.1	60.8	57.1	63.7
	2015	777	55.2	42.6	1.4	0.8	55.2	50.8	60.1
Chile	2011	798	29.1	62.2	4.8	3.9	29.1	22.9	35.7
	2015	668	30.3	59.1	4.9	5.7	30.3	28.0	32.4
Chinese Taipei	2011	615	74.3	24.7	1.0	0.0	74.3	75.9	72.8
	2015	614	71.3	27.7	0.7	0.3	71.3	66.9	75.6
Croatia	2011	646	43.7	46.0	10.1	0.2	43.7	40.8	46.6
	2015	564	44.2	48.6	6.1	1.2	44.2	37.7	50.6
Czech Republic	2011	654	58.0	35.4	5.9	0.7	58.0	49.4	66.0
	2015	741	63.4	31.4	4.0	1.2	63.4	60.3	66.3
Denmark	2011	563	61.3	33.1	2.9	2.7	61.3	57.1	65.8
	2015	524	59.1	32.9	2.7	5.3	59.1	57.3	60.9
England	2011	471	45.3	50.7	3.5	0.5	45.3	39.1	51.2
	2015	571	44.3	52.3	2.4	1.0	44.3	39.3	49.6
Finland	2011	664	63.7	33.5	2.4	0.4	63.7	60.4	66.6
	2015	702	62.2	34.3	2.7	0.9	62.2	59.3	64.7
Georgia	2011	691	34.2	50.6	11.3	3.9	34.2	32.9	35.4
	2015	561	32.5	55.7	9.2	2.5	32.5	27.7	37.5
Germany	2011	573	63.9	32.4	3.1	0.6	63.9	57.8	69.9
	2015	561	63.9	33.2	2.1	0.7	63.9	59.3	68.3
Hong Kong SAR	2011	566	71.6	27.7	0.7	0.0	71.6	63.0	79.2
	2015	516	77.2	22.0	0.5	0.3	77.2	74.4	80.0
Hungary	2011	741	47.3	48.1	3.4	1.1	47.3	43.9	50.2
	2015	725	56.5	40.1	2.0	1.4	56.5	50.4	63.2
Iran, Islamic Rep. of	2011	829	19.8	64.7	12.3	3.1	19.8	13.8	25.4
	2015	545	22.4	58.0	14.4	5.1	22.4	17.2	27.0
Ireland	2011	654	39.6	58.8	1.4	0.3	39.6	35.2	43.2
	2015	623	46.8	51.9	0.7	0.5	46.8	43.3	49.9
Italy	2011	600	47.9	44.6	7.1	0.5	47.9	45.5	49.9
	2015	640	45.7	46.6	6.3	1.4	45.7	37.7	53.9
Japan	2011	629	76.8	22.2	0.7	0.3	76.8	74.9	78.5
	2015	634	76.0	22.4	0.7	0.9	76.0	74.0	78.3

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_l1 (M051533): Geometric Shapes and Measures / Reasoning      Type: CR      1 Point  
Label: How many books will fill the box

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	620	54.6	39.1	4.9	1.5	54.6	55.6	53.8
	2015	675	64.9	32.1	2.4	0.6	64.9	63.3	66.5
Korea, Rep. of	2011	617	83.3	16.7	0.0	0.0	83.3	79.5	86.5
	2015	665	80.7	19.1	0.0	0.2	80.7	74.7	86.7
Kuwait	2011	589	5.4	75.6	13.7	5.3	5.4	5.4	5.3
	2015	512	11.9	70.7	10.9	6.5	11.9	10.7	13.3
Lithuania	2011	680	60.8	35.5	3.4	0.3	60.8	56.9	64.3
	2015	652	63.4	33.5	3.0	0.2	63.4	62.3	64.5
Morocco	2011	1115	9.2	60.9	26.2	3.7	9.2	7.0	11.2
	2015	711	16.4	71.2	9.1	3.3	16.4	11.4	20.7
Netherlands	2011	470	62.2	36.8	0.6	0.4	62.2	55.7	68.6
	2015	642	61.4	36.5	0.5	1.6	61.4	55.3	67.5
New Zealand	2011	801	37.3	60.1	1.1	1.5	37.3	36.4	38.1
	2015	898	38.5	58.8	1.1	1.5	38.5	35.5	41.3
Northern Ireland	2011	503	47.1	49.5	3.4	0.0	47.1	43.9	49.9
	2015	447	42.1	54.6	2.9	0.4	42.1	37.1	47.0
Oman	2011	1477	14.7	74.7	6.0	4.6	14.7	15.9	13.7
	2015	1291	17.2	76.3	4.7	1.8	17.2	18.0	16.4
Portugal	2011	574	44.0	49.0	5.6	1.4	44.0	34.7	52.5
	2015	666	46.4	48.1	4.8	0.8	46.4	37.2	55.1
Qatar	2011	587	17.8	73.6	7.3	1.3	17.8	16.8	18.6
	2015	743	22.8	69.4	4.9	2.9	22.8	21.9	23.7
Russian Federation	2011	645	65.7	29.1	4.9	0.3	65.7	61.9	69.5
	2015	695	73.6	23.9	2.0	0.5	73.6	70.2	77.0
Saudi Arabia	2011	657	14.0	77.4	6.7	1.8	14.0	13.1	15.0
	2015	634	17.6	67.8	11.2	3.4	17.6	17.9	17.2
Serbia	2011	621	51.2	37.7	9.0	2.1	51.2	47.5	54.3
	2015	573	44.0	45.0	8.8	2.2	44.0	42.6	45.4
Singapore	2011	910	66.2	32.9	0.6	0.2	66.2	64.6	67.7
	2015	923	70.1	29.2	0.1	0.6	70.1	67.4	72.7
Slovak Republic	2011	806	56.2	38.5	4.6	0.7	56.2	51.1	61.4
	2015	818	52.4	39.3	7.3	1.0	52.4	49.1	55.4
Slovenia	2011	628	55.9	39.7	3.8	0.6	55.9	49.0	61.7
	2015	643	60.8	33.5	3.8	1.8	60.8	56.3	64.9
Spain	2011	601	34.7	52.5	11.0	1.7	34.7	27.2	42.0
	2015	1119	38.5	51.6	7.3	2.6	38.5	34.7	42.0

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_11 (M051533): Geometric Shapes and Measures / Reasoning      Type: CR      1 Point  
Label: How many books will fill the box

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	51.2	42.0	4.8	2.0	51.2	49.4	53.0
	2015	590	51.3	42.1	2.3	4.3	51.3	49.6	52.9
Turkey	2011	1073	27.4	66.8	5.3	0.6	27.4	25.9	28.6
	2015	930	25.5	70.3	3.3	0.8	25.5	20.8	29.5
United Arab Emirates	2011	2101	20.6	71.1	6.6	1.6	20.6	18.4	22.9
	2015	3024	28.2	63.7	6.0	2.2	28.2	23.7	32.1
United States	2011	1799	41.7	55.3	1.2	1.8	41.7	37.1	45.7
	2015	1428	42.2	53.6	1.9	2.3	42.2	37.2	47.3
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International Avg (n=40)	2011	30389	45.6	47.9	5.2	1.4	45.6	41.9	48.9
	2015	30695	47.1	47.0	4.1	1.8	47.1	43.2	50.8
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Ontario, Canada	2011	646	39.4	54.8	1.9	3.9	39.4	34.6	44.2
	2015	656	40.3	56.1	1.4	2.2	40.3	36.5	44.1
Quebec, Canada	2011	596	48.4	47.3	2.8	1.4	48.4	39.7	57.0
	2015	398	49.0	47.2	2.1	1.6	49.0	45.8	52.1
Norway (4)	2011	453	43.0	51.8	3.3	1.8	43.0	38.6	48.7
	2015	596	42.6	50.7	4.1	2.6	42.6	36.5	48.8
Abu Dhabi, UAE	2011	600	17.5	76.6	4.4	1.4	17.5	15.3	19.9
	2015	713	22.5	69.0	6.4	2.1	22.5	19.3	25.2
Dubai, UAE	2011	869	25.5	69.1	4.4	1.0	25.5	22.0	28.5
	2015	1071	42.6	53.1	2.9	1.4	42.6	36.3	48.4
Florida, US	2011	393	36.6	59.8	1.9	1.7	36.6	32.7	40.1
	2015	285	40.2	57.0	2.1	0.6	40.2	34.6	46.0
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_12 (M051080): Data Display / Applying Type: CR 1 Point  
Label: Complete the bar graph

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	875	53.3	7.8	6.8	10.0	15.5	5.2	1.4	53.3	52.5	54.1
	2015	857	64.3	5.7	4.0	7.3	16.0	1.1	1.6	64.3	63.5	65.2
Bahrain	2011	585	36.5	10.2	3.6	5.6	33.1	7.9	3.1	36.5	40.4	32.7
	2015	593	33.2	11.2	6.9	12.2	29.5	5.7	1.3	33.2	37.7	29.1
Belgium (Flemish)	2011	685	66.2	3.9	4.2	7.9	14.3	3.3	0.2	66.2	67.0	65.6
	2015	777	59.9	3.1	6.1	10.8	15.1	3.9	1.2	59.9	60.0	59.7
Chile	2011	798	41.9	6.3	2.6	6.1	23.6	13.4	6.0	41.9	40.1	43.8
	2015	669	50.8	4.6	3.5	8.0	16.9	8.7	7.5	50.8	51.3	50.4
Chinese Taipei	2011	615	80.8	0.7	3.2	5.4	7.0	2.9	0.0	80.8	82.5	79.3
	2015	614	79.2	1.7	2.2	7.7	6.6	2.3	0.3	79.2	78.2	80.2
Croatia	2011	646	33.2	2.0	3.9	8.8	30.0	19.3	2.8	33.2	28.6	37.9
	2015	564	38.6	6.6	5.4	6.2	31.6	9.3	2.3	38.6	37.9	39.3
Czech Republic	2011	654	49.8	2.0	3.5	7.8	25.1	8.9	2.8	49.8	41.4	57.7
	2015	741	57.1	2.5	7.4	8.0	13.6	8.4	3.0	57.1	55.5	58.5
Denmark	2011	563	62.5	5.8	7.9	7.5	6.8	6.3	3.2	62.5	64.2	60.8
	2015	524	60.6	5.5	6.1	4.4	14.6	2.5	6.2	60.6	60.5	60.8
England	2011	471	69.0	6.5	4.4	5.5	12.1	1.7	0.7	69.0	70.3	67.8
	2015	571	65.8	7.9	5.7	5.9	12.2	1.2	1.4	65.8	67.8	63.6
Finland	2011	664	70.5	4.3	5.2	6.2	9.4	3.6	0.8	70.5	76.0	65.6
	2015	702	64.4	3.7	5.3	10.3	11.4	3.8	1.2	64.4	67.5	61.7
Georgia	2011	691	29.2	0.1	4.1	6.8	27.9	24.1	7.9	29.2	33.5	25.5
	2015	562	31.9	0.9	5.2	5.0	37.2	14.2	5.7	31.9	30.8	33.0
Germany	2011	573	61.2	4.8	3.9	10.5	11.8	6.0	1.8	61.2	62.8	59.6
	2015	561	52.1	4.7	7.0	12.5	15.4	6.8	1.4	52.1	51.1	52.9
Hong Kong SAR	2011	566	78.4	1.7	4.3	8.8	6.3	0.4	0.0	78.4	78.1	78.7
	2015	516	83.0	3.0	2.9	6.6	4.2	0.0	0.3	83.0	82.2	83.7
Hungary	2011	742	46.8	2.7	4.0	8.4	28.3	7.6	2.3	46.8	46.5	47.0
	2015	725	54.1	4.6	5.1	9.3	22.1	2.9	1.8	54.1	53.1	55.2
Iran, Islamic Rep. of	2011	829	17.7	5.4	6.0	5.3	39.7	17.7	8.1	17.7	17.3	18.2
	2015	545	35.3	4.3	2.3	5.7	27.7	16.1	8.5	35.3	36.2	34.5
Ireland	2011	654	52.7	12.2	4.6	12.2	15.6	2.5	0.3	52.7	51.8	53.4
	2015	623	67.3	7.3	3.0	6.3	13.6	1.8	0.6	67.3	66.2	68.3
Italy	2011	600	49.5	3.3	5.7	6.8	25.7	7.9	1.1	49.5	51.0	48.2
	2015	641	55.5	6.3	7.9	5.9	15.5	6.5	2.4	55.5	49.5	61.5
Japan	2011	629	80.4	3.7	5.1	5.7	4.4	0.3	0.3	80.4	80.6	80.3
	2015	634	75.1	5.1	6.5	6.0	5.8	0.6	0.9	75.1	78.6	71.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M09\_12 (M051080): Data Display / Applying Type: CR 1 Point  
Label: Complete the bar graph

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	623	51.5	2.0	7.4	4.8	20.3	11.2	2.7	51.5	52.6	50.6
	2015	675	47.0	1.3	6.2	8.5	28.7	7.2	1.1	47.0	44.6	49.3
Korea, Rep. of	2011	617	82.8	0.8	2.7	9.2	4.0	0.5	0.0	82.8	81.9	83.6
	2015	665	86.1	2.1	4.5	5.7	1.4	0.0	0.2	86.1	86.8	85.5
Kuwait	2011	589	13.1	5.6	6.1	4.6	46.7	15.8	8.1	13.1	15.4	10.3
	2015	513	18.4	4.1	7.7	4.4	40.4	14.2	10.7	18.4	19.8	17.4
Lithuania	2011	680	61.7	4.3	5.2	11.1	15.4	1.3	1.0	61.7	63.8	59.8
	2015	652	73.5	3.5	4.4	9.0	8.0	0.9	0.6	73.5	78.3	68.4
Morocco	2011	1115	12.6	1.1	2.0	5.3	31.7	34.8	12.6	12.6	10.0	14.8
	2015	712	21.3	2.5	4.7	5.0	48.7	13.2	4.7	21.3	17.4	24.6
Netherlands	2011	470	74.4	1.5	3.8	8.4	8.6	2.9	0.4	74.4	72.6	76.3
	2015	642	65.7	2.4	5.5	9.6	13.4	1.8	1.7	65.7	64.9	67.2
New Zealand	2011	801	48.7	9.6	4.2	9.6	23.4	2.8	1.7	48.7	50.5	47.1
	2015	897	51.4	7.3	6.5	6.6	24.0	2.5	1.7	51.4	54.5	48.6
Northern Ireland	2011	503	65.6	6.8	4.4	6.2	15.7	1.2	0.1	65.6	69.9	61.8
	2015	447	63.8	9.8	4.3	8.5	12.1	0.9	0.7	63.8	69.7	58.0
Oman	2011	1477	20.6	12.2	5.4	3.5	40.6	12.0	5.7	20.6	22.9	18.4
	2015	1290	27.4	16.5	8.0	8.4	29.6	7.4	2.7	27.4	30.8	23.9
Portugal	2011	574	72.8	0.4	5.3	10.0	6.7	3.1	1.7	72.8	70.4	75.0
	2015	666	72.8	0.8	3.9	12.8	7.5	1.0	1.2	72.8	70.1	75.4
Qatar	2011	587	29.8	9.0	3.0	6.0	41.2	9.0	2.0	29.8	34.4	25.7
	2015	743	30.6	7.9	4.2	7.7	39.7	5.5	4.5	30.6	31.4	29.7
Russian Federation	2011	645	60.0	0.3	2.8	7.1	22.8	5.6	1.4	60.0	61.4	58.6
	2015	695	69.0	3.4	5.5	4.8	13.0	3.6	0.8	69.0	66.9	71.2
Saudi Arabia	2011	657	20.6	3.6	6.2	8.0	47.3	10.0	4.3	20.6	20.6	20.6
	2015	634	16.7	2.4	6.5	3.5	52.4	11.8	6.7	16.7	23.0	10.7
Serbia	2011	621	51.3	4.3	4.9	4.0	17.5	13.5	4.5	51.3	53.2	49.6
	2015	573	55.5	2.1	4.2	6.0	19.2	9.0	4.0	55.5	61.3	50.1
Singapore	2011	910	77.3	3.3	3.5	8.9	5.6	1.1	0.2	77.3	78.0	76.7
	2015	923	80.8	0.8	2.8	7.3	7.0	0.6	0.6	80.8	79.3	82.2
Slovak Republic	2011	806	49.5	2.3	5.7	8.3	21.8	10.6	1.7	49.5	49.4	49.6
	2015	818	49.3	3.1	5.3	5.5	25.7	7.5	3.6	49.3	52.0	46.8
Slovenia	2011	628	65.0	5.7	7.2	8.5	9.4	3.0	1.3	65.0	63.5	66.3
	2015	643	67.1	6.8	6.6	6.9	8.0	1.8	2.7	67.1	71.4	63.3
Spain	2011	601	49.0	5.9	5.0	8.2	20.8	7.6	3.6	49.0	45.4	52.4
	2015	1119	54.0	4.5	4.4	9.6	18.9	3.8	4.7	54.0	50.9	57.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M09\_12 (M051080): Data Display / Applying Type: CR 1 Point  
Label: Complete the bar graph

COUNTRY	Year	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	676	52.5	14.5	5.7	6.2	12.4	5.2	3.4	52.5	56.1	48.9
	2015	589	52.6	7.4	5.3	8.8	16.3	4.8	4.8	52.6	53.7	51.6
Turkey	2011	1073	44.8	5.5	5.1	7.6	28.6	6.3	2.1	44.8	46.5	43.4
	2015	930	47.4	6.7	4.3	9.9	25.9	4.4	1.4	47.4	46.1	48.4
United Arab Emirates	2011	2101	35.8	4.9	6.2	7.5	30.7	11.7	3.2	35.8	37.0	34.7
	2015	3024	41.3	7.2	6.0	7.5	28.8	6.0	3.2	41.3	41.5	41.2
United States	2011	1799	65.8	2.8	7.3	7.9	10.7	3.6	1.9	65.8	63.4	68.0
	2015	1428	65.5	3.9	7.7	7.6	9.8	2.6	2.8	65.5	66.9	64.0
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International Avg (n=40)	2011	30393	52.1	4.7	4.8	7.4	20.5	7.8	2.7	52.1	52.6	51.7
	2015	30697	54.6	4.9	5.3	7.5	19.7	5.2	2.8	54.6	55.2	54.1
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Ontario, Canada	2011	646	64.7	2.1	8.7	7.0	10.4	2.6	4.6	64.7	66.8	62.5
	2015	656	65.1	3.9	7.1	8.8	11.4	1.0	2.7	65.1	64.7	65.6
Quebec, Canada	2011	596	61.7	7.0	5.0	6.7	13.1	4.0	2.5	61.7	57.7	65.7
	2015	398	58.6	14.7	3.0	8.0	11.2	1.4	3.1	58.6	65.9	51.7
Norway (4)	2011	453	52.6	8.2	3.8	8.2	16.6	8.0	2.5	52.6	55.9	48.4
	2015	596	50.5	10.5	5.0	7.3	19.0	4.1	3.6	50.5	49.7	51.3
Abu Dhabi, UAE	2011	600	32.2	5.5	7.5	7.2	34.1	11.5	1.9	32.2	33.6	30.7
	2015	713	31.6	10.1	6.4	7.6	34.9	6.3	3.2	31.6	31.8	31.3
Dubai, UAE	2011	869	45.0	5.3	4.5	9.3	25.4	8.7	1.8	45.0	44.6	45.3
	2015	1071	61.2	4.5	5.9	7.2	17.3	1.9	1.9	61.2	59.4	62.8
Florida, US	2011	393	63.3	2.1	6.1	9.4	11.4	5.8	1.9	63.3	62.2	64.3
	2015	285	67.1	4.6	4.4	10.3	10.6	1.7	1.3	67.1	68.4	65.7
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_01 (M051401): Number / Applying Type: CR 1 Point  
Label: Number of pencils 9 boxes hold

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	33.0	63.5	3.5	0.0	33.0	30.5	35.4
	2015	864	33.6	64.6	1.7	0.1	33.6	28.9	37.8
Bahrain	2011	580	20.6	73.4	5.8	0.2	20.6	22.8	18.4
	2015	591	25.0	70.8	4.2	0.0	25.0	24.6	25.4
Belgium (Flemish)	2011	689	31.0	68.1	0.9	0.0	31.0	29.8	32.4
	2015	778	24.1	72.5	3.4	0.0	24.1	23.5	24.8
Chile	2011	787	38.4	57.8	3.4	0.5	38.4	37.3	39.2
	2015	684	36.3	57.3	5.8	0.6	36.3	32.0	40.5
Chinese Taipei	2011	622	57.9	40.3	1.7	0.2	57.9	60.1	56.0
	2015	618	58.6	39.5	1.9	0.0	58.6	55.4	61.8
Croatia	2011	656	32.9	60.8	5.9	0.3	32.9	31.0	34.4
	2015	575	31.7	64.7	3.6	0.0	31.7	27.8	35.4
Czech Republic	2011	652	49.6	41.4	9.0	0.0	49.6	45.3	53.3
	2015	749	50.0	43.9	5.8	0.4	50.0	41.9	57.8
Denmark	2011	555	45.3	50.2	4.3	0.1	45.3	38.8	51.9
	2015	516	50.4	45.0	3.7	0.9	50.4	47.5	53.0
England	2011	497	34.5	62.4	3.1	0.0	34.5	31.5	37.5
	2015	578	32.5	66.0	1.5	0.0	32.5	28.7	36.6
Finland	2011	657	30.9	63.5	5.6	0.0	30.9	24.4	37.2
	2015	714	25.2	69.4	5.3	0.1	25.2	24.7	25.7
Georgia	2011	699	37.4	53.4	8.4	0.8	37.4	34.0	40.5
	2015	553	45.2	50.2	4.5	0.2	45.2	44.2	46.0
Germany	2011	575	39.0	56.1	4.6	0.3	39.0	37.6	40.3
	2015	566	35.4	58.8	5.7	0.0	35.4	35.0	36.1
Hong Kong SAR	2011	28	26.6	56.5	16.9	0.0	26.6	24.6	29.9
	2015	507	70.2	28.3	1.5	0.0	70.2	66.2	73.6
Hungary	2011	746	48.6	49.5	1.7	0.2	48.6	45.6	51.9
	2015	721	48.2	50.8	0.9	0.0	48.2	40.6	54.9
Iran, Islamic Rep. of	2011	819	22.5	61.0	16.0	0.5	22.5	16.8	28.3
	2015	547	23.8	65.2	10.5	0.5	23.8	19.9	27.4
Ireland	2011	650	31.1	65.1	3.6	0.2	31.1	30.9	31.3
	2015	613	44.2	53.3	2.5	0.0	44.2	41.4	46.6
Italy	2011	593	40.2	55.4	4.0	0.5	40.2	39.7	40.7
	2015	621	41.2	52.4	6.4	0.0	41.2	36.0	46.3
Japan	2011	625	61.7	36.9	1.3	0.2	61.7	60.4	62.9
	2015	620	58.9	40.0	1.1	0.0	58.9	57.5	60.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_01 (M051401): Number / Applying Type: CR 1 Point  
Label: Number of pencils 9 boxes hold

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	621	48.5	45.3	5.4	0.7	48.5	46.1	51.1
	2015	671	59.0	39.2	1.9	0.0	59.0	59.1	58.9
Korea, Rep. of	2011	616	40.5	58.9	0.5	0.1	40.5	35.5	45.7
	2015	668	44.6	54.8	0.6	0.0	44.6	45.9	43.5
Kuwait	2011	588	7.2	76.0	16.4	0.3	7.2	5.6	9.3
	2015	511	7.9	74.5	16.1	1.5	7.9	8.3	7.5
Lithuania	2011	659	63.9	32.9	3.2	0.1	63.9	61.5	66.0
	2015	640	54.3	42.4	3.4	0.0	54.3	50.8	57.5
Morocco	2011	1136	7.5	68.7	21.5	2.3	7.5	6.2	8.7
	2015	717	8.4	81.6	9.5	0.5	8.4	7.5	9.2
Netherlands	2011	468	23.0	75.7	1.3	0.0	23.0	21.5	25.2
	2015	640	21.0	77.6	1.2	0.2	21.0	21.3	20.6
New Zealand	2011	792	29.3	68.2	2.4	0.1	29.3	26.2	32.4
	2015	897	32.2	64.7	3.1	0.0	32.2	31.6	32.9
Northern Ireland	2011	500	32.9	65.0	2.1	0.0	32.9	34.2	31.8
	2015	451	32.7	65.4	1.9	0.0	32.7	31.4	34.1
Oman	2011	1487	7.7	85.3	6.7	0.3	7.7	7.8	7.6
	2015	1292	13.7	81.7	4.2	0.3	13.7	13.3	14.2
Portugal	2011	585	37.7	57.8	4.5	0.0	37.7	35.3	39.9
	2015	662	36.6	59.8	3.6	0.0	36.6	34.0	39.0
Qatar	2011	586	11.7	81.5	6.4	0.3	11.7	8.9	14.3
	2015	739	13.6	80.9	5.2	0.3	13.6	16.4	10.5
Russian Federation	2011	648	61.3	36.3	2.4	0.0	61.3	57.8	64.5
	2015	707	67.7	30.2	2.1	0.0	67.7	65.9	69.4
Saudi Arabia	2011	675	19.1	75.4	5.5	0.0	19.1	15.8	22.6
	2015	616	15.6	72.6	10.2	1.6	15.6	14.9	16.3
Serbia	2011	629	45.4	46.4	7.4	0.9	45.4	48.5	42.1
	2015	572	42.4	50.7	6.8	0.0	42.4	39.5	45.5
Singapore	2011	906	37.1	62.0	0.8	0.0	37.1	32.4	41.7
	2015	931	39.0	60.6	0.4	0.0	39.0	40.0	38.0
Slovak Republic	2011	796	40.6	54.5	4.8	0.0	40.6	40.0	41.2
	2015	819	41.5	55.5	3.0	0.0	41.5	38.6	44.2
Slovenia	2011	646	46.9	45.6	7.5	0.0	46.9	43.3	50.6
	2015	635	49.0	45.3	5.6	0.1	49.0	49.7	48.3
Spain	2011	594	25.3	68.0	6.2	0.4	25.3	20.2	30.6
	2015	1117	27.5	67.2	5.1	0.2	27.5	25.5	29.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_01 (M051401): Number / Applying Type: CR 1 Point  
Label: Number of pencils 9 boxes hold

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	25.1	68.3	6.4	0.2	25.1	20.5	28.8
	2015	595	30.1	64.0	5.2	0.7	30.1	28.6	31.6
Turkey	2011	1080	43.1	53.1	3.8	0.0	43.1	39.6	46.4
	2015	932	43.1	53.0	3.8	0.1	43.1	40.5	45.8
United Arab Emirates	2011	2083	12.7	80.1	7.1	0.1	12.7	12.6	12.7
	2015	3004	16.2	78.4	5.4	0.1	16.2	16.6	15.8
United States	2011	1791	34.9	62.9	2.0	0.1	34.9	32.8	37.0
	2015	1430	40.8	57.8	1.2	0.2	40.8	36.3	45.2
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International Avg (n=40)	2011	29811	34.6	59.6	5.6	0.2	34.6	32.3	36.8
	2015	30661	36.8	58.8	4.2	0.2	36.8	34.8	38.7
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Ontario, Canada	2011	651	33.1	65.0	1.6	0.2	33.1	30.8	35.5
	2015	655	33.5	65.4	1.0	0.1	33.5	30.9	35.8
Quebec, Canada	2011	617	66.8	31.3	1.5	0.4	66.8	65.8	67.9
	2015	404	64.6	34.9	0.4	0.0	64.6	60.6	69.3
Norway (4)	2011	442	39.5	55.8	4.7	0.0	39.5	35.3	42.9
	2015	590	35.4	58.9	4.5	1.2	35.4	32.6	38.6
Abu Dhabi, UAE	2011	591	10.5	83.0	6.5	0.0	10.5	10.3	10.6
	2015	709	10.0	85.6	4.3	0.2	10.0	8.6	11.3
Dubai, UAE	2011	869	15.0	76.0	9.0	0.1	15.0	16.0	14.0
	2015	1050	27.5	68.8	3.6	0.0	27.5	27.8	27.2
Florida, US	2011	375	35.1	63.0	1.8	0.0	35.1	33.5	36.9
	2015	290	42.1	56.5	1.4	0.0	42.1	42.7	41.6
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_02 (M051075): Number / Knowing      Type: MC      Key: C  
Label: Fraction equal to 0.4

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	34.5	21.3	30.0	34.5	12.6	1.5	0.0	38.2	30.8
	2015	864	46.9	15.0	27.4	46.9	8.1	2.6	0.1	52.0	42.4
Bahrain	2011	580	68.9	15.7	11.1	68.9	2.2	1.9	0.2	76.3	61.8
	2015	591	60.9	16.3	16.1	60.9	5.2	1.3	0.1	64.8	57.4
Belgium (Flemish)	2011	689	71.2	9.6	14.1	71.2	4.9	0.2	0.0	74.9	67.0
	2015	778	78.1	8.6	10.2	78.1	1.8	1.2	0.0	79.0	77.2
Chile	2011	787	39.3	24.7	26.8	39.3	5.4	3.1	0.7	43.2	35.9
	2015	684	45.3	20.5	26.1	45.3	4.8	1.9	1.4	47.8	42.9
Chinese Taipei	2011	622	74.9	10.3	9.9	74.9	3.9	0.8	0.2	77.6	72.7
	2015	618	77.9	6.9	8.2	77.9	6.6	0.4	0.0	79.1	76.7
Croatia	2011	656	19.6	19.6	35.9	19.6	6.1	18.5	0.3	18.3	20.7
	2015	575	18.7	18.9	40.0	18.7	3.0	19.1	0.3	16.6	20.7
Czech Republic	2011	652	13.4	29.4	34.4	13.4	6.8	15.9	0.2	11.5	15.1
	2015	749	11.2	34.8	41.7	11.2	5.4	6.6	0.4	10.1	12.2
Denmark	2011	555	19.3	30.6	34.1	19.3	9.4	6.3	0.3	15.8	22.9
	2015	516	27.4	24.0	35.3	27.4	7.7	4.6	1.0	26.9	27.9
England	2011	497	44.7	17.0	27.8	44.7	7.8	2.4	0.3	45.1	44.3
	2015	578	54.6	15.8	21.5	54.6	7.2	0.9	0.0	55.4	53.7
Finland	2011	657	51.7	16.2	20.6	51.7	10.6	0.9	0.0	53.0	50.4
	2015	714	48.5	16.6	20.8	48.5	8.8	5.2	0.1	53.9	43.7
Georgia	2011	699	22.2	25.5	34.2	22.2	6.2	11.0	0.9	21.7	22.7
	2015	553	19.7	27.9	36.7	19.7	4.6	10.9	0.2	21.4	18.2
Germany	2011	575	16.1	29.1	33.9	16.1	6.5	14.1	0.3	13.9	18.4
	2015	566	16.1	26.7	35.0	16.1	7.1	15.1	0.0	16.4	15.9
Hong Kong SAR	2011	561	87.1	5.1	3.4	87.1	3.5	1.0	0.0	90.8	83.7
	2015	507	92.5	2.1	2.1	92.5	3.0	0.3	0.0	91.8	93.2
Hungary	2011	746	16.6	28.3	39.5	16.6	11.3	4.0	0.2	17.3	15.7
	2015	721	16.3	25.6	47.3	16.3	5.1	5.6	0.0	13.0	19.3
Iran, Islamic Rep. of	2011	819	25.5	23.8	30.2	25.5	11.4	8.3	0.8	25.6	25.4
	2015	547	65.9	12.0	11.9	65.9	5.6	3.8	0.8	71.5	60.7
Ireland	2011	650	63.7	9.2	20.7	63.7	5.3	0.8	0.3	68.6	58.6
	2015	613	75.6	4.6	13.4	75.6	5.4	1.0	0.0	74.7	76.5
Italy	2011	593	68.5	8.3	15.9	68.5	2.9	3.9	0.5	71.3	65.5
	2015	621	71.9	12.2	12.2	71.9	1.6	2.2	0.0	72.0	71.7
Japan	2011	625	64.6	15.4	15.8	64.6	2.7	1.2	0.3	65.1	64.1
	2015	620	58.6	20.1	17.0	58.6	3.4	0.9	0.0	59.2	58.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_02 (M051075): Number / Knowing      Type: MC      Key: C  
Label: Fraction equal to 0.4

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	37.6	18.0	32.9	37.6	6.3	4.1	1.0	36.2	39.1
	2015	671	46.4	20.1	30.8	46.4	2.4	0.3	0.0	41.8	50.7
Korea, Rep. of	2011	616	86.9	4.5	6.1	86.9	2.4	0.0	0.1	89.9	83.7
	2015	668	80.6	5.6	7.9	80.6	5.9	0.0	0.0	82.9	78.6
Kuwait	2011	587	47.5	18.4	13.1	47.5	14.1	5.9	0.9	52.7	41.3
	2015	511	35.8	26.0	21.2	35.8	6.6	9.0	1.5	40.1	31.3
Lithuania	2011	659	62.6	9.4	21.1	62.6	5.6	1.1	0.1	64.2	61.3
	2015	640	59.8	8.2	22.5	59.8	8.8	0.7	0.0	59.2	60.4
Morocco	2011	1110	33.2	21.8	22.4	33.2	12.6	7.6	2.4	30.7	35.6
	2015	699	35.1	21.4	30.6	35.1	9.8	2.1	0.9	29.8	39.7
Netherlands	2011	468	19.5	26.1	42.5	19.5	9.0	2.8	0.0	20.4	18.7
	2015	640	15.7	24.1	50.2	15.7	8.3	1.4	0.2	14.8	16.7
New Zealand	2011	792	24.8	31.6	28.8	24.8	13.3	1.3	0.2	26.9	22.8
	2015	897	26.2	26.3	36.7	26.2	8.9	1.9	0.0	26.0	26.4
Northern Ireland	2011	500	59.5	10.1	18.8	59.5	11.3	0.3	0.0	61.6	57.6
	2015	449	60.9	11.2	19.9	60.9	7.9	0.1	0.0	59.2	62.9
Oman	2011	1487	55.3	17.0	14.5	55.3	10.1	2.6	0.5	58.8	52.2
	2015	1292	60.5	16.4	15.1	60.5	5.4	2.2	0.4	63.2	57.7
Portugal	2011	585	41.9	23.8	27.0	41.9	4.7	2.5	0.1	41.1	42.6
	2015	662	81.0	5.9	10.6	81.0	0.1	2.3	0.1	80.9	81.1
Qatar	2011	586	47.2	18.4	25.5	47.2	6.4	2.2	0.3	48.9	45.6
	2015	739	58.2	14.0	22.3	58.2	2.4	2.6	0.5	60.9	55.2
Russian Federation	2011	648	37.0	19.7	34.4	37.0	4.9	4.0	0.0	36.8	37.1
	2015	707	35.9	16.6	38.5	35.9	3.8	5.2	0.0	36.5	35.3
Saudi Arabia	2011	675	59.5	21.0	11.9	59.5	6.0	1.5	0.2	68.4	49.8
	2015	610	56.9	21.0	11.0	56.9	7.2	2.2	1.7	67.6	47.2
Serbia	2011	629	24.7	27.2	31.6	24.7	7.0	8.6	1.0	23.1	26.3
	2015	572	19.0	27.3	35.2	19.0	8.8	9.7	0.0	19.7	18.2
Singapore	2011	906	93.2	3.0	2.5	93.2	1.3	0.0	0.0	93.5	92.8
	2015	931	92.7	2.9	3.3	92.7	1.2	0.0	0.0	94.5	90.8
Slovak Republic	2011	796	24.1	25.0	40.1	24.1	6.6	4.1	0.0	23.7	24.5
	2015	819	20.6	26.5	39.8	20.6	4.2	9.0	0.0	19.2	21.9
Slovenia	2011	644	9.4	33.1	45.3	9.4	5.4	6.7	0.1	9.0	9.8
	2015	635	10.1	28.2	49.5	10.1	6.6	5.6	0.1	10.8	9.3
Spain	2011	594	48.8	17.4	20.7	48.8	6.9	5.8	0.4	49.4	48.2
	2015	1117	54.2	15.1	22.1	54.2	5.6	2.6	0.4	57.0	50.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_02 (M051075): Number / Knowing      Type: MC      Key: C  
Label: Fraction equal to 0.4

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	14.0	28.7	42.0	14.0	5.8	9.2	0.2	12.7	15.2
	2015	595	18.4	26.5	42.1	18.4	4.5	7.7	0.8	18.3	18.7
Turkey	2011	1080	70.4	10.2	11.3	70.4	7.4	0.7	0.1	73.2	67.8
	2015	932	44.4	19.1	26.4	44.4	8.6	1.4	0.1	43.4	45.4
United Arab Emirates	2011	2083	39.3	23.0	27.1	39.3	7.1	3.2	0.2	40.4	38.1
	2015	3003	51.2	16.8	23.5	51.2	6.0	2.4	0.1	53.0	49.5
United States	2011	1791	62.4	10.4	16.6	62.4	8.0	2.1	0.5	62.1	62.7
	2015	1430	65.0	7.8	17.9	65.0	7.1	2.0	0.2	66.8	63.3
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International Avg (n=40)	2011	30316	45.0	18.9	24.4	45.0	7.0	4.3	0.3	46.3	43.7
	2015	30634	47.9	17.4	25.0	47.9	5.6	3.8	0.3	48.8	47.0
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Ontario, Canada	2011	651	25.4	31.4	31.4	25.4	9.4	2.0	0.3	26.4	24.3
	2015	655	26.1	24.6	42.3	26.1	6.0	0.8	0.1	27.1	25.1
Quebec, Canada	2011	617	34.4	28.4	23.4	34.4	11.1	2.2	0.4	34.3	34.5
	2015	403	38.4	18.0	28.0	38.4	13.6	2.0	0.0	41.9	34.4
Norway (4)	2011	442	16.2	34.4	37.3	16.2	6.8	5.4	0.0	13.5	18.6
	2015	590	13.5	35.8	34.4	13.5	8.4	6.8	1.2	12.0	15.2
Abu Dhabi, UAE	2011	591	40.3	23.2	25.9	40.3	8.2	2.3	0.1	42.4	38.2
	2015	709	36.7	23.8	30.1	36.7	7.1	2.0	0.2	37.3	36.3
Dubai, UAE	2011	869	42.1	21.3	26.2	42.1	6.4	3.8	0.2	43.0	41.3
	2015	1049	57.7	14.5	21.6	57.7	4.5	1.5	0.2	63.2	52.7
Florida, US	2011	375	78.0	3.2	8.6	78.0	8.5	1.4	0.3	80.2	75.7
	2015	290	81.1	4.6	9.8	81.1	3.4	0.7	0.4	77.1	84.5
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.



M11\_03 (M051402): Number / Applying Type: CR 1 Point  
Label: Weight of the Sam's rods

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	18.4	76.0	5.7	0.0	18.4	17.3	19.4
	2015	864	19.6	75.1	5.1	0.2	19.6	18.0	21.0
Bahrain	2011	580	17.9	73.0	8.9	0.2	17.9	18.6	17.2
	2015	591	18.8	74.6	6.4	0.2	18.8	18.7	18.9
Belgium (Flemish)	2011	689	25.4	73.4	1.2	0.0	25.4	21.3	30.1
	2015	778	24.0	73.2	2.9	0.0	24.0	21.2	26.8
Chile	2011	787	28.7	64.4	6.1	0.8	28.7	30.9	26.8
	2015	684	16.0	74.5	8.1	1.4	16.0	18.5	13.5
Chinese Taipei	2011	622	86.3	12.6	1.0	0.2	86.3	91.5	81.8
	2015	618	88.6	10.5	0.8	0.0	88.6	88.4	88.9
Croatia	2011	656	49.8	46.4	3.4	0.3	49.8	46.9	52.2
	2015	575	46.4	49.9	3.4	0.3	46.4	43.2	49.5
Czech Republic	2011	652	35.7	52.9	11.0	0.4	35.7	36.0	35.3
	2015	749	38.1	54.9	6.6	0.4	38.1	35.6	40.5
Denmark	2011	555	34.3	55.1	10.0	0.7	34.3	26.6	42.1
	2015	516	35.4	56.3	7.2	1.0	35.4	33.9	36.8
England	2011	497	32.4	60.8	6.4	0.3	32.4	29.4	35.2
	2015	578	43.3	54.2	2.5	0.0	43.3	40.9	45.9
Finland	2011	657	20.7	71.0	8.4	0.0	20.7	12.5	28.6
	2015	714	14.2	77.9	7.8	0.1	14.2	10.3	17.6
Georgia	2011	699	41.6	48.8	7.5	2.1	41.6	39.7	43.3
	2015	553	42.0	53.9	3.8	0.2	42.0	42.6	41.5
Germany	2011	575	38.7	55.0	5.8	0.5	38.7	36.0	41.4
	2015	566	28.9	63.3	7.9	0.0	28.9	27.3	30.6
Hong Kong SAR	2011	561	79.1	20.1	0.8	0.0	79.1	78.8	79.4
	2015	507	81.9	16.6	1.5	0.0	81.9	79.2	84.2
Hungary	2011	746	43.6	53.1	3.0	0.2	43.6	41.0	46.5
	2015	721	38.4	59.7	1.9	0.0	38.4	36.3	40.2
Iran, Islamic Rep. of	2011	819	38.6	50.8	9.7	0.9	38.6	38.5	38.6
	2015	547	24.5	65.7	9.0	0.8	24.5	25.4	23.7
Ireland	2011	650	32.1	64.1	3.5	0.3	32.1	35.0	29.2
	2015	613	44.1	52.9	3.0	0.0	44.1	44.4	43.9
Italy	2011	593	49.8	42.3	7.4	0.6	49.8	50.2	49.4
	2015	621	53.7	40.5	5.8	0.0	53.7	55.7	52.1
Japan	2011	625	77.9	20.5	1.3	0.3	77.9	77.6	78.1
	2015	620	75.7	23.5	0.8	0.0	75.7	76.9	74.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_03 (M051402): Number / Applying Type: CR 1 Point  
Label: Weight of the Sam's rods

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	53.7	41.0	3.8	1.5	53.7	50.9	56.6
	2015	671	62.9	36.0	1.1	0.0	62.9	61.5	64.2
Korea, Rep. of	2011	616	84.7	14.9	0.2	0.1	84.7	86.0	83.5
	2015	668	73.4	26.1	0.5	0.0	73.4	73.2	73.6
Kuwait	2011	588	2.4	76.3	20.2	1.1	2.4	2.7	2.1
	2015	511	5.5	74.3	18.8	1.5	5.5	5.9	5.1
Lithuania	2011	659	64.6	31.5	3.7	0.1	64.6	62.3	66.6
	2015	640	57.3	40.0	2.7	0.0	57.3	57.4	57.2
Morocco	2011	1136	12.3	59.7	25.5	2.5	12.3	14.6	10.2
	2015	716	18.7	72.1	8.3	0.9	18.7	17.2	20.0
Netherlands	2011	468	34.8	61.9	3.3	0.0	34.8	28.6	42.9
	2015	640	29.3	68.9	1.6	0.2	29.3	25.8	33.1
New Zealand	2011	792	13.5	82.3	4.0	0.2	13.5	12.2	14.8
	2015	897	15.0	77.9	7.1	0.0	15.0	11.9	18.1
Northern Ireland	2011	500	44.4	50.7	4.8	0.0	44.4	45.7	43.3
	2015	451	46.8	51.1	2.0	0.0	46.8	45.9	47.9
Oman	2011	1487	13.5	78.9	7.0	0.6	13.5	13.9	13.2
	2015	1292	16.3	77.8	5.5	0.4	16.3	15.7	16.9
Portugal	2011	585	65.3	31.7	2.9	0.1	65.3	66.4	64.3
	2015	662	66.2	30.9	2.8	0.1	66.2	66.2	66.2
Qatar	2011	586	17.0	74.7	7.9	0.3	17.0	14.7	19.2
	2015	739	24.1	67.6	7.9	0.5	24.1	24.1	24.1
Russian Federation	2011	648	57.9	40.3	1.8	0.0	57.9	56.0	59.7
	2015	707	69.7	29.4	0.9	0.0	69.7	69.5	69.9
Saudi Arabia	2011	675	9.3	83.3	7.2	0.2	9.3	8.0	10.8
	2015	617	11.1	70.8	16.2	1.9	11.1	13.6	8.8
Serbia	2011	629	56.8	37.9	4.2	1.1	56.8	58.7	54.8
	2015	572	59.3	35.6	5.1	0.0	59.3	60.1	58.5
Singapore	2011	906	76.8	22.6	0.6	0.0	76.8	76.6	77.0
	2015	931	76.8	22.8	0.4	0.0	76.8	78.6	74.9
Slovak Republic	2011	796	38.8	54.8	6.4	0.0	38.8	39.3	38.3
	2015	819	16.8	74.2	9.0	0.0	16.8	15.7	17.8
Slovenia	2011	646	23.1	66.7	10.2	0.1	23.1	22.2	24.0
	2015	635	17.8	74.9	7.0	0.3	17.8	16.3	19.4
Spain	2011	594	48.5	44.1	6.8	0.6	48.5	48.4	48.6
	2015	1117	57.8	37.3	4.5	0.4	57.8	59.8	55.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_03 (M051402): Number / Applying      Type: CR      1 Point  
Label: Weight of the Sam's rods

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
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Sweden	2011	623	13.0	72.9	13.8	0.3	13.0	7.6	17.3
	2015	595	19.4	70.3	9.5	0.8	19.4	17.2	21.6
Turkey	2011	1080	48.7	47.8	3.4	0.1	48.7	47.3	50.0
	2015	932	55.5	41.5	2.8	0.1	55.5	55.3	55.7
United Arab Emirates	2011	2083	20.1	70.9	8.8	0.2	20.1	19.4	20.8
	2015	3004	26.7	66.7	6.5	0.1	26.7	24.0	29.1
United States	2011	1791	52.1	44.0	3.1	0.8	52.1	51.2	53.1
	2015	1430	51.9	46.2	1.5	0.4	51.9	49.6	54.2
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International Avg (n=40)	2011	30345	40.1	53.2	6.3	0.4	40.1	39.0	41.1
	2015	30661	40.3	54.2	5.2	0.3	40.3	39.5	41.0
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Ontario, Canada	2011	651	25.8	70.4	3.4	0.3	25.8	23.2	28.5
	2015	655	27.6	67.7	4.6	0.1	27.6	22.2	32.4
Quebec, Canada	2011	617	26.4	69.9	3.2	0.4	26.4	22.6	30.5
	2015	404	25.9	69.3	4.4	0.3	25.9	23.0	29.2
Norway (4)	2011	442	14.1	74.1	11.8	0.0	14.1	10.8	16.8
	2015	590	14.2	75.0	8.7	2.2	14.2	13.6	14.9
Abu Dhabi, UAE	2011	591	13.5	76.4	10.0	0.1	13.5	12.6	14.4
	2015	709	21.3	71.6	7.0	0.2	21.3	18.5	23.9
Dubai, UAE	2011	869	31.8	61.0	7.0	0.2	31.8	30.9	32.6
	2015	1050	39.4	57.5	2.8	0.3	39.4	36.9	41.6
Florida, US	2011	375	61.3	35.5	2.5	0.6	61.3	65.5	57.0
	2015	290	52.0	45.9	1.7	0.4	52.0	56.9	47.8
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_04 (M051226): Number / Applying Type: MC Key: B  
Label: Pattern with 2/3 shapes shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	56.3	12.0	56.3	10.0	18.5	3.2	0.0	53.2	59.4
	2015	864	57.6	11.1	57.6	7.5	19.9	3.7	0.2	54.9	59.9
Bahrain	2011	580	44.0	15.5	44.0	14.7	22.0	3.6	0.2	45.0	43.1
	2015	591	43.5	12.2	43.5	14.8	25.2	3.8	0.4	41.6	45.3
Belgium (Flemish)	2011	689	72.5	7.9	72.5	6.5	11.2	1.7	0.1	71.2	74.0
	2015	778	67.3	7.1	67.3	5.4	18.3	1.9	0.0	66.0	68.7
Chile	2011	787	46.2	15.9	46.2	17.1	15.9	3.7	1.1	48.3	44.5
	2015	684	46.4	13.5	46.4	12.0	22.9	3.2	1.9	48.0	44.9
Chinese Taipei	2011	622	75.5	4.7	75.5	5.4	9.4	4.7	0.2	80.3	71.4
	2015	618	70.5	8.3	70.5	6.6	12.0	2.6	0.0	72.1	69.0
Croatia	2011	656	22.6	22.5	22.6	18.3	21.4	14.9	0.3	21.0	24.0
	2015	575	27.9	23.6	27.9	15.7	19.4	12.7	0.7	28.4	27.5
Czech Republic	2011	652	27.5	15.4	27.5	14.9	28.9	13.0	0.4	21.5	32.7
	2015	749	40.3	12.1	40.3	11.5	31.0	4.8	0.4	39.9	40.6
Denmark	2011	555	57.1	7.2	57.1	9.1	19.7	6.1	0.8	54.7	59.6
	2015	516	58.0	8.8	58.0	8.5	21.0	2.7	1.0	60.0	56.2
England	2011	497	53.7	10.2	53.7	10.0	20.9	4.9	0.3	51.4	55.8
	2015	578	53.5	11.8	53.5	11.6	20.3	2.5	0.3	55.4	51.4
Finland	2011	657	71.3	6.8	71.3	4.8	14.9	2.2	0.0	73.6	69.0
	2015	714	61.3	7.7	61.3	9.2	16.6	5.0	0.1	65.2	57.9
Georgia	2011	699	34.5	21.3	34.5	11.7	21.8	8.1	2.6	34.9	34.1
	2015	553	26.6	29.1	26.6	12.2	23.2	8.8	0.2	24.7	28.3
Germany	2011	575	26.9	23.8	26.9	11.8	26.7	10.3	0.5	27.2	26.5
	2015	566	23.6	19.7	23.6	12.8	29.6	14.3	0.0	24.5	22.9
Hong Kong SAR	2011	561	83.9	3.6	83.9	4.0	5.2	3.3	0.0	84.1	83.7
	2015	507	85.4	3.3	85.4	4.2	5.0	2.1	0.0	84.9	85.8
Hungary	2011	746	50.6	13.7	50.6	9.8	22.0	3.3	0.5	51.7	49.4
	2015	721	39.2	20.2	39.2	10.0	25.2	5.4	0.0	38.2	40.2
Iran, Islamic Rep. of	2011	819	46.4	10.3	46.4	12.2	21.5	8.5	1.1	48.9	43.9
	2015	547	45.1	11.8	45.1	12.4	22.7	6.7	1.2	41.9	48.1
Ireland	2011	650	58.4	8.9	58.4	7.2	23.1	2.2	0.3	60.6	56.1
	2015	613	63.6	8.3	63.6	6.6	19.8	1.6	0.0	63.4	63.8
Italy	2011	593	54.1	12.6	54.1	11.8	17.1	3.8	0.6	50.9	57.6
	2015	621	54.1	9.4	54.1	13.5	19.9	3.1	0.0	54.3	54.1
Japan	2011	625	69.9	6.4	69.9	5.4	14.8	3.1	0.5	72.9	66.9
	2015	620	67.5	7.5	67.5	4.1	17.6	3.2	0.0	67.6	67.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_04 (M051226): Number / Applying Type: MC Key: B  
Label: Pattern with 2/3 shapes shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	40.2	21.2	40.2	13.6	21.0	2.5	1.5	38.8	41.7
	2015	671	53.1	14.9	53.1	11.6	20.2	0.3	0.0	51.8	54.2
Korea, Rep. of	2011	616	64.2	8.9	64.2	8.6	17.8	0.3	0.1	62.2	66.3
	2015	668	70.1	9.0	70.1	5.7	13.9	1.4	0.0	68.7	71.4
Kuwait	2011	585	35.5	18.4	35.5	16.0	18.8	10.2	1.2	38.2	32.2
	2015	508	34.4	15.8	34.4	16.4	18.7	13.0	1.7	35.0	33.8
Lithuania	2011	659	60.5	12.7	60.5	6.3	17.2	2.9	0.3	55.6	64.8
	2015	640	52.1	15.3	52.1	7.2	23.1	2.4	0.0	50.1	54.0
Morocco	2011	1085	26.9	20.8	26.9	24.6	12.3	12.4	3.1	29.0	25.0
	2015	699	30.8	25.1	30.8	24.3	14.3	4.6	0.9	28.9	32.5
Netherlands	2011	468	65.2	8.0	65.2	5.5	20.9	0.4	0.0	68.1	61.8
	2015	640	55.2	11.1	55.2	9.7	22.9	0.7	0.4	55.8	54.5
New Zealand	2011	792	47.7	12.9	47.7	11.4	26.4	1.4	0.2	50.2	45.2
	2015	897	50.7	10.7	50.7	12.1	23.9	2.6	0.0	53.2	48.3
Northern Ireland	2011	500	69.2	4.8	69.2	8.8	16.1	1.1	0.0	69.4	69.0
	2015	446	64.6	10.5	64.6	6.6	17.9	0.4	0.0	58.7	71.5
Oman	2011	1487	36.8	19.9	36.8	17.6	18.8	6.3	0.6	38.4	35.3
	2015	1291	39.6	19.0	39.6	14.4	22.6	3.7	0.7	44.4	34.9
Portugal	2011	585	31.1	21.0	31.1	19.9	24.9	3.0	0.1	33.1	29.4
	2015	662	56.3	9.6	56.3	9.5	21.8	2.8	0.1	54.1	58.2
Qatar	2011	586	42.1	15.2	42.1	16.3	20.1	5.7	0.5	43.6	40.8
	2015	739	41.9	15.5	41.9	14.6	24.9	2.5	0.6	42.7	41.0
Russian Federation	2011	648	54.0	13.3	54.0	8.9	22.2	1.6	0.0	54.3	53.7
	2015	707	52.6	9.9	52.6	8.8	26.4	2.3	0.0	53.6	51.7
Saudi Arabia	2011	675	40.1	24.8	40.1	15.5	17.8	1.3	0.5	37.7	42.7
	2015	608	37.8	22.3	37.8	14.4	20.8	2.9	1.7	39.5	36.3
Serbia	2011	629	41.2	14.3	41.2	10.5	28.7	4.1	1.2	38.0	44.7
	2015	572	45.8	11.6	45.8	11.7	24.7	6.0	0.2	40.6	51.2
Singapore	2011	906	80.9	4.4	80.9	5.3	9.2	0.3	0.0	81.3	80.4
	2015	931	79.3	3.8	79.3	4.5	12.0	0.4	0.0	78.4	80.2
Slovak Republic	2011	796	37.9	17.9	37.9	14.1	26.6	3.3	0.1	36.8	39.0
	2015	819	27.7	22.9	27.7	13.3	30.5	5.4	0.2	29.2	26.3
Slovenia	2011	639	47.7	13.2	47.7	9.3	27.1	2.7	0.1	47.0	48.4
	2015	635	41.0	12.0	41.0	13.9	29.9	2.9	0.3	41.0	40.9
Spain	2011	594	47.2	13.4	47.2	14.2	16.9	7.6	0.8	46.6	47.8
	2015	1117	45.7	14.0	45.7	14.5	22.8	2.6	0.4	44.3	47.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_04 (M051226): Number / Applying Type: MC Key: B  
Label: Pattern with 2/3 shapes shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	37.0	15.6	37.0	14.9	24.9	7.2	0.4	39.2	35.2
	2015	595	47.8	12.7	47.8	9.6	24.8	4.1	1.0	52.9	43.4
Turkey	2011	1079	43.0	19.7	43.0	14.9	20.1	2.2	0.2	41.7	44.1
	2015	932	44.8	18.8	44.8	15.0	20.5	0.8	0.1	43.6	46.1
United Arab Emirates	2011	2083	45.8	14.9	45.8	14.3	21.4	3.3	0.3	47.5	44.0
	2015	3002	46.5	14.1	46.5	13.5	21.7	4.0	0.2	45.8	47.2
United States	2011	1791	70.3	5.5	70.3	6.9	14.5	1.9	0.9	65.4	75.3
	2015	1430	68.2	6.8	68.2	8.1	14.9	1.5	0.6	65.4	71.0
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International Avg (n=40)	2011	30283	50.4	13.5	50.4	11.6	19.5	4.6	0.5	50.3	50.5
	2015	30624	50.4	13.3	50.4	10.9	21.1	3.9	0.4	50.2	50.7
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Ontario, Canada	2011	651	55.7	10.2	55.7	12.3	19.4	1.8	0.5	56.6	54.8
	2015	651	49.4	14.1	49.4	10.0	24.8	1.5	0.2	49.2	49.5
Quebec, Canada	2011	617	56.8	11.6	56.8	10.7	17.0	3.5	0.4	54.7	59.0
	2015	400	59.1	13.4	59.1	8.3	18.0	0.9	0.3	56.2	62.4
Norway (4)	2011	442	43.6	13.3	43.6	11.3	25.5	6.2	0.1	44.9	42.5
	2015	590	39.0	16.3	39.0	13.1	26.1	3.1	2.4	40.8	37.0
Abu Dhabi, UAE	2011	591	43.9	18.2	43.9	13.7	21.7	2.4	0.1	45.5	42.3
	2015	709	39.6	15.3	39.6	17.0	23.0	4.9	0.2	38.3	40.9
Dubai, UAE	2011	869	51.2	12.4	51.2	12.2	19.1	4.7	0.4	50.7	51.7
	2015	1048	56.7	9.4	56.7	9.1	21.4	3.1	0.2	58.8	54.9
Florida, US	2011	375	67.5	7.3	67.5	7.7	13.8	2.8	0.9	63.1	72.2
	2015	290	69.8	4.8	69.8	6.7	18.0	0.3	0.4	72.6	67.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M11\_05 (M051131): Number / Knowing Type: CR 1 Point  
Label: What number triangle stands for

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	35.4	54.4	10.2	0.0	35.4	37.5	33.3
	2015	864	34.6	54.0	11.0	0.4	34.6	36.9	32.5
Bahrain	2011	580	34.1	55.0	10.4	0.5	34.1	34.8	33.3
	2015	591	30.4	57.3	12.0	0.4	30.4	37.4	23.9
Belgium (Flemish)	2011	689	72.0	23.7	4.2	0.1	72.0	73.1	70.7
	2015	778	73.1	21.7	5.2	0.0	73.1	73.7	72.5
Chile	2011	787	10.6	69.8	18.1	1.6	10.6	12.3	9.1
	2015	684	14.4	65.2	18.4	1.9	14.4	14.7	14.1
Chinese Taipei	2011	622	54.3	36.4	9.1	0.2	54.3	57.5	51.6
	2015	618	65.8	25.9	8.3	0.0	65.8	67.0	64.7
Croatia	2011	656	66.0	15.9	17.7	0.4	66.0	70.0	62.6
	2015	575	67.8	19.8	11.8	0.7	67.8	73.9	61.8
Czech Republic	2011	652	59.7	17.8	22.1	0.4	59.7	62.9	56.9
	2015	749	73.1	14.5	12.0	0.4	73.1	76.6	69.8
Denmark	2011	555	31.6	48.8	18.8	0.8	31.6	33.6	29.7
	2015	516	28.8	51.2	18.6	1.4	28.8	26.1	31.2
England	2011	497	36.2	48.1	15.1	0.6	36.2	34.9	37.5
	2015	578	48.2	42.9	8.6	0.3	48.2	50.5	45.6
Finland	2011	657	64.9	23.2	11.8	0.0	64.9	65.3	64.6
	2015	714	62.7	23.6	13.7	0.1	62.7	64.0	61.5
Georgia	2011	699	60.2	18.3	18.5	3.0	60.2	63.9	56.9
	2015	553	70.4	20.6	8.6	0.4	70.4	74.6	66.5
Germany	2011	575	56.9	23.5	18.8	0.7	56.9	60.2	53.5
	2015	566	56.0	24.1	20.0	0.0	56.0	63.0	49.0
Hong Kong SAR	2011	561	75.6	20.3	4.1	0.0	75.6	73.4	77.6
	2015	507	78.0	19.3	2.7	0.0	78.0	78.7	77.5
Hungary	2011	746	64.0	25.0	10.2	0.8	64.0	65.9	61.9
	2015	721	64.9	24.9	10.2	0.0	64.9	65.7	64.1
Iran, Islamic Rep. of	2011	819	50.4	32.2	15.7	1.7	50.4	50.2	50.5
	2015	547	32.3	50.4	15.8	1.5	32.3	36.1	28.7
Ireland	2011	650	51.6	37.9	10.2	0.3	51.6	56.1	47.0
	2015	613	61.0	35.2	3.8	0.0	61.0	63.9	58.4
Italy	2011	593	37.2	40.1	22.0	0.6	37.2	41.3	32.9
	2015	621	40.3	37.4	22.3	0.0	40.3	37.1	43.4
Japan	2011	625	80.2	16.2	3.1	0.5	80.2	82.1	78.4
	2015	620	75.9	18.9	5.2	0.0	75.9	78.2	73.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_05 (M051131): Number / Knowing Type: CR 1 Point  
Label: What number triangle stands for

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	79.6	14.4	4.4	1.6	79.6	81.4	77.7
	2015	671	81.7	16.8	1.5	0.0	81.7	83.8	79.7
Korea, Rep. of	2011	616	82.0	15.1	2.7	0.1	82.0	81.0	83.0
	2015	668	69.9	26.7	3.4	0.0	69.9	69.7	70.2
Kuwait	2011	588	24.7	49.7	24.1	1.5	24.7	29.3	19.1
	2015	508	20.1	51.9	25.9	2.1	20.1	23.1	17.0
Lithuania	2011	659	75.5	15.1	8.9	0.4	75.5	73.7	77.0
	2015	640	75.6	17.2	7.3	0.0	75.6	76.3	74.9
Morocco	2011	1136	7.5	56.0	32.5	4.0	7.5	8.4	6.6
	2015	717	12.4	69.4	17.2	0.9	12.4	11.3	13.4
Netherlands	2011	468	59.5	36.1	4.4	0.0	59.5	59.3	59.2
	2015	640	63.4	30.6	5.7	0.4	63.4	65.2	61.4
New Zealand	2011	792	40.5	54.0	5.3	0.2	40.5	41.2	39.8
	2015	897	38.8	52.7	8.3	0.2	38.8	39.2	38.4
Northern Ireland	2011	500	65.8	26.1	8.1	0.0	65.8	75.4	57.4
	2015	451	68.7	25.4	6.0	0.0	68.7	69.5	67.6
Oman	2011	1487	20.1	67.0	11.9	1.0	20.1	22.3	18.1
	2015	1292	30.6	59.8	8.9	0.7	30.6	33.3	27.9
Portugal	2011	585	33.2	49.1	17.4	0.2	33.2	33.8	32.7
	2015	662	25.8	56.7	17.4	0.1	25.8	25.2	26.3
Qatar	2011	586	22.6	63.8	13.0	0.7	22.6	24.7	20.7
	2015	739	29.0	56.2	14.2	0.6	29.0	31.7	26.1
Russian Federation	2011	648	76.8	17.6	5.6	0.0	76.8	77.1	76.6
	2015	707	80.5	16.4	3.1	0.0	80.5	83.4	77.9
Saudi Arabia	2011	675	38.0	52.5	9.0	0.5	38.0	38.7	37.2
	2015	617	24.8	54.0	19.1	2.1	24.8	30.9	19.4
Serbia	2011	629	70.0	18.7	10.0	1.3	70.0	76.6	63.0
	2015	572	71.7	15.5	12.6	0.2	71.7	75.1	68.1
Singapore	2011	906	79.3	19.7	1.1	0.0	79.3	80.6	78.0
	2015	931	77.9	20.7	1.4	0.0	77.9	79.4	76.4
Slovak Republic	2011	796	78.2	11.9	9.6	0.3	78.2	82.6	74.1
	2015	819	71.2	15.9	12.7	0.2	71.2	72.9	69.5
Slovenia	2011	646	68.3	18.4	13.2	0.1	68.3	75.7	60.5
	2015	635	74.3	16.3	9.1	0.4	74.3	78.1	70.1
Spain	2011	594	20.8	45.6	32.5	1.0	20.8	17.9	23.8
	2015	1117	24.7	48.4	26.6	0.4	24.7	21.0	29.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M11\_05 (M051131): Number / Knowing Type: CR 1 Point  
Label: What number triangle stands for

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	33.7	40.8	25.1	0.4	33.7	36.0	31.8
	2015	595	44.9	38.9	15.1	1.0	44.9	48.7	41.2
Turkey	2011	1080	32.6	51.3	15.9	0.2	32.6	34.2	31.0
	2015	932	33.9	53.0	13.0	0.1	33.9	38.1	29.2
United Arab Emirates	2011	2083	39.3	50.3	10.1	0.3	39.3	43.5	35.1
	2015	3003	34.9	55.2	9.7	0.2	34.9	37.0	33.0
United States	2011	1791	61.3	32.0	5.6	1.0	61.3	63.1	59.6
	2015	1430	56.2	38.4	4.7	0.7	56.2	58.0	54.5
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International Avg (n=40)	2011	30345	51.3	35.3	12.8	0.7	51.3	53.3	49.2
	2015	30658	52.2	36.1	11.3	0.4	52.2	54.2	50.3
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Ontario, Canada	2011	651	25.5	63.9	9.5	1.1	25.5	24.0	27.1
	2015	655	29.2	60.1	10.5	0.2	29.2	30.7	27.8
Quebec, Canada	2011	617	47.1	42.5	9.8	0.6	47.1	45.7	48.6
	2015	404	48.1	41.4	10.1	0.3	48.1	47.6	48.8
Norway (4)	2011	442	34.5	50.9	14.5	0.1	34.5	40.8	29.2
	2015	590	37.3	44.6	15.7	2.4	37.3	39.9	34.3
Abu Dhabi, UAE	2011	591	39.8	53.6	6.5	0.1	39.8	41.3	38.3
	2015	709	29.0	61.7	9.1	0.2	29.0	32.2	26.1
Dubai, UAE	2011	869	37.1	49.5	13.0	0.4	37.1	39.6	34.8
	2015	1050	47.2	44.2	8.3	0.3	47.2	46.0	48.3
Florida, US	2011	375	68.7	25.7	4.4	1.2	68.7	72.9	64.4
	2015	290	63.6	33.0	3.0	0.4	63.6	70.0	58.1
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_06 (M051103): Number / Knowing      Type: MC      Key: C  
Label: Add 2 to 2.25

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	53.2	33.9	5.4	53.2	6.3	1.2	0.0	48.8	57.5
	2015	864	59.9	28.6	4.7	59.9	5.0	0.9	0.8	54.9	64.2
Bahrain	2011	580	36.5	52.8	6.3	36.5	2.7	1.2	0.5	36.3	36.7
	2015	590	31.3	59.0	4.1	31.3	3.5	1.4	0.6	28.1	34.2
Belgium (Flemish)	2011	689	88.2	6.4	0.8	88.2	3.6	0.9	0.1	86.8	89.8
	2015	778	86.9	6.6	0.9	86.9	5.1	0.6	0.0	86.0	87.8
Chile	2011	787	27.1	58.2	6.2	27.1	3.5	3.0	2.0	26.1	28.0
	2015	684	29.6	58.4	6.0	29.6	2.1	1.7	2.2	25.6	33.5
Chinese Taipei	2011	622	87.4	10.4	0.6	87.4	0.7	0.6	0.2	88.9	86.2
	2015	618	87.7	9.8	1.2	87.7	0.9	0.4	0.0	88.9	86.6
Croatia	2011	656	62.0	24.0	1.3	62.0	6.2	6.0	0.4	55.9	67.1
	2015	575	64.3	27.5	1.9	64.3	3.1	2.6	0.7	58.2	70.2
Czech Republic	2011	652	58.4	27.5	1.7	58.4	3.5	8.4	0.5	52.4	63.7
	2015	749	58.8	33.4	2.5	58.8	2.3	2.5	0.4	51.3	66.1
Denmark	2011	555	76.1	13.6	1.8	76.1	3.8	3.8	0.9	71.9	80.4
	2015	516	78.3	13.0	1.5	78.3	3.3	1.9	2.0	71.3	84.3
England	2011	497	65.8	23.4	3.1	65.8	5.3	1.8	0.6	61.6	69.7
	2015	578	66.4	26.2	1.4	66.4	5.5	0.2	0.3	60.8	72.5
Finland	2011	657	83.4	12.9	0.9	83.4	1.2	1.6	0.0	83.1	83.7
	2015	714	75.7	17.8	2.0	75.7	2.7	1.7	0.1	78.9	72.9
Georgia	2011	697	40.6	42.5	4.0	40.6	4.0	5.1	3.9	42.0	39.3
	2015	553	47.1	43.2	2.4	47.1	3.4	3.5	0.4	48.0	46.3
Germany	2011	575	51.9	38.8	1.2	51.9	5.4	2.0	0.7	48.6	55.2
	2015	566	50.7	39.4	1.6	50.7	5.5	2.8	0.0	51.1	50.2
Hong Kong SAR	2011	561	90.8	7.4	1.1	90.8	0.4	0.2	0.0	89.8	91.7
	2015	507	88.0	9.4	1.6	88.0	0.6	0.4	0.0	84.0	91.4
Hungary	2011	746	49.4	40.8	3.4	49.4	3.3	2.1	1.0	44.7	54.6
	2015	721	57.2	35.7	2.9	57.2	1.7	2.6	0.0	51.0	62.6
Iran, Islamic Rep. of	2011	819	49.2	20.9	7.9	49.2	6.4	13.6	2.1	45.5	52.9
	2015	547	53.9	23.8	7.5	53.9	5.1	7.6	2.0	52.3	55.4
Ireland	2011	650	54.0	41.3	2.3	54.0	1.0	1.2	0.3	49.1	59.0
	2015	613	65.4	30.1	1.7	65.4	1.5	1.2	0.0	61.2	69.1
Italy	2011	593	62.0	30.1	3.1	62.0	1.4	2.8	0.6	62.9	61.1
	2015	621	68.4	26.2	3.2	68.4	1.1	1.1	0.0	65.2	71.2
Japan	2011	625	86.5	10.2	1.1	86.5	0.7	1.1	0.5	85.5	87.5
	2015	620	87.5	10.3	0.8	87.5	0.9	0.4	0.0	84.7	90.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_06 (M051103): Number / Knowing      Type: MC      Key: C  
Label: Add 2 to 2.25

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	55.6	32.7	6.2	55.6	2.4	1.6	1.6	55.5	55.6
	2015	671	57.0	38.1	3.3	57.0	1.1	0.6	0.0	48.7	64.5
Korea, Rep. of	2011	616	89.7	8.9	1.3	89.7	0.0	0.0	0.1	86.3	93.3
	2015	668	84.7	11.9	1.3	84.7	1.2	0.9	0.0	83.4	85.9
Kuwait	2011	581	27.6	42.4	13.3	27.6	5.5	9.7	1.5	30.3	24.3
	2015	511	27.5	46.4	11.6	27.5	4.8	7.6	2.0	30.7	24.3
Lithuania	2011	659	57.5	37.4	1.9	57.5	2.4	0.2	0.6	59.8	55.4
	2015	640	57.1	40.5	0.9	57.1	1.0	0.5	0.0	48.4	65.4
Morocco	2011	1109	51.3	14.7	14.5	51.3	9.9	4.9	4.8	54.9	47.9
	2015	708	22.4	30.4	14.7	22.4	28.9	2.4	1.1	23.1	21.9
Netherlands	2011	468	58.5	31.6	0.9	58.5	8.6	0.4	0.0	58.7	57.7
	2015	640	70.7	20.0	1.7	70.7	6.2	0.9	0.4	73.1	68.2
New Zealand	2011	792	53.1	31.3	5.6	53.1	8.2	1.5	0.3	49.0	57.3
	2015	897	62.2	24.6	4.0	62.2	6.5	2.3	0.4	59.6	64.7
Northern Ireland	2011	500	65.4	29.6	3.1	65.4	1.4	0.5	0.0	61.1	69.2
	2015	450	66.2	28.5	1.3	66.2	4.0	0.0	0.0	56.7	77.5
Oman	2011	1487	27.5	51.2	10.2	27.5	4.8	5.1	1.3	24.7	30.1
	2015	1288	31.4	50.9	9.3	31.4	4.6	3.1	0.7	28.9	33.9
Portugal	2011	585	77.9	19.4	1.3	77.9	0.8	0.3	0.2	76.7	79.1
	2015	662	72.7	22.2	2.0	72.7	1.5	1.5	0.1	69.8	75.3
Qatar	2011	586	30.1	51.8	8.8	30.1	4.8	3.8	0.8	24.3	35.3
	2015	739	47.5	40.4	7.0	47.5	2.4	1.6	1.0	42.2	53.5
Russian Federation	2011	648	65.0	30.0	0.9	65.0	1.9	1.9	0.2	58.8	70.8
	2015	707	66.8	29.1	1.3	66.8	1.1	1.8	0.0	64.0	69.4
Saudi Arabia	2011	672	30.4	50.2	10.5	30.4	6.0	2.3	0.5	28.4	32.6
	2015	615	30.9	45.9	12.3	30.9	5.9	2.9	2.1	30.9	30.9
Serbia	2011	629	55.9	32.9	1.5	55.9	5.0	3.4	1.3	46.3	65.9
	2015	572	49.7	40.7	2.2	49.7	4.6	1.9	0.9	37.9	62.2
Singapore	2011	906	86.9	11.5	1.1	86.9	0.3	0.2	0.0	87.8	86.1
	2015	931	85.7	11.9	0.7	85.7	1.4	0.4	0.0	85.3	86.1
Slovak Republic	2011	796	56.2	34.4	3.5	56.2	4.0	1.6	0.3	50.9	61.1
	2015	819	48.2	42.3	3.9	48.2	3.1	2.2	0.3	40.1	56.0
Slovenia	2011	646	60.0	31.3	2.1	60.0	2.5	4.1	0.1	58.8	61.2
	2015	635	62.4	30.3	1.8	62.4	3.4	1.7	0.4	60.1	64.9
Spain	2011	594	48.1	44.1	1.6	48.1	1.4	3.4	1.4	43.5	52.9
	2015	1117	61.0	33.2	2.5	61.0	1.1	1.6	0.7	58.4	64.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_06 (M051103): Number / Knowing      Type: MC      Key: C  
Label: Add 2 to 2.25

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	63.4	19.7	5.8	63.4	7.3	3.0	0.8	58.2	67.6
	2015	595	64.4	18.3	3.9	64.4	7.6	4.1	1.7	61.3	67.5
Turkey	2011	1080	52.8	37.0	5.5	52.8	4.0	0.4	0.3	50.1	55.4
	2015	932	51.9	39.3	4.7	51.9	3.2	0.7	0.1	49.0	54.9
United Arab Emirates	2011	2083	47.7	38.6	6.6	47.7	4.2	2.5	0.5	44.0	51.4
	2015	3002	49.3	36.1	7.7	49.3	4.4	2.2	0.3	47.7	50.6
United States	2011	1791	40.9	51.7	2.2	40.9	2.1	1.9	1.3	34.5	47.4
	2015	1430	51.4	40.3	2.5	51.4	2.4	2.7	0.8	45.7	57.1
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International Avg (n=40)	2011	30306	58.1	30.7	4.0	58.1	3.7	2.7	0.8	55.6	60.5
	2015	30643	59.4	30.5	3.7	59.4	3.8	1.9	0.6	56.2	62.7
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Ontario, Canada	2011	651	48.3	39.1	4.9	48.3	4.0	2.4	1.3	43.4	53.3
	2015	654	53.9	35.0	4.0	53.9	5.4	1.5	0.2	49.7	57.7
Quebec, Canada	2011	617	53.8	36.9	2.9	53.8	3.2	2.5	0.6	48.2	59.8
	2015	404	64.8	31.2	1.4	64.8	1.8	0.3	0.4	62.1	67.8
Norway (4)	2011	442	55.5	28.9	6.3	55.5	5.2	3.4	0.7	45.2	64.2
	2015	590	51.2	29.1	5.5	51.2	6.6	5.2	2.4	49.7	52.9
Abu Dhabi, UAE	2011	591	48.7	35.8	7.8	48.7	4.5	2.8	0.4	44.7	52.7
	2015	709	46.0	35.7	9.7	46.0	5.9	2.4	0.2	44.1	47.6
Dubai, UAE	2011	869	49.4	38.4	4.9	49.4	4.5	2.4	0.4	45.2	53.2
	2015	1049	58.4	32.7	4.4	58.4	2.6	1.7	0.3	55.7	60.7
Florida, US	2011	375	41.9	51.1	2.1	41.9	1.9	1.8	1.2	34.5	49.7
	2015	290	49.3	42.5	4.0	49.3	3.1	0.7	0.4	42.1	55.5
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M11\_07 (M051217): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Length of the line in cm

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	28.0	69.7	2.3	0.0	28.0	25.5	30.4
	2015	864	29.0	68.7	1.4	0.8	29.0	24.0	33.4
Bahrain	2011	580	9.9	86.6	2.6	0.9	9.9	8.4	11.3
	2015	590	15.3	81.6	2.5	0.6	15.3	15.4	15.2
Belgium (Flemish)	2011	689	49.5	49.8	0.5	0.1	49.5	45.3	54.3
	2015	778	47.9	51.4	0.7	0.0	47.9	43.3	52.8
Chile	2011	787	9.1	84.1	4.7	2.2	9.1	8.2	9.8
	2015	684	8.6	84.1	4.9	2.4	8.6	6.6	10.6
Chinese Taipei	2011	622	53.7	45.6	0.5	0.2	53.7	53.2	54.1
	2015	618	60.8	38.5	0.7	0.0	60.8	60.1	61.5
Croatia	2011	656	30.5	65.2	3.6	0.6	30.5	23.9	35.9
	2015	575	33.8	64.7	0.8	0.7	33.8	27.5	39.9
Czech Republic	2011	652	36.5	60.0	3.1	0.5	36.5	30.6	41.6
	2015	749	40.0	58.5	1.1	0.4	40.0	35.2	44.7
Denmark	2011	555	51.5	42.5	4.8	1.2	51.5	47.3	55.7
	2015	516	50.5	45.2	2.1	2.2	50.5	45.8	54.5
England	2011	497	34.4	62.7	2.3	0.6	34.4	28.6	40.0
	2015	578	37.9	61.4	0.4	0.3	37.9	34.4	41.6
Finland	2011	657	50.5	46.9	2.6	0.1	50.5	39.3	61.3
	2015	714	47.3	51.3	1.3	0.1	47.3	43.8	50.3
Georgia	2011	697	18.2	71.4	6.2	4.1	18.2	18.5	18.0
	2015	553	16.9	78.9	3.9	0.4	16.9	16.5	17.3
Germany	2011	575	48.5	48.6	2.3	0.7	48.5	41.8	55.3
	2015	566	44.8	52.6	2.6	0.0	44.8	42.5	47.1
Hong Kong SAR	2011	561	41.8	57.6	0.6	0.0	41.8	40.3	43.2
	2015	507	52.5	47.4	0.1	0.0	52.5	44.6	59.3
Hungary	2011	740	27.1	70.6	1.4	1.0	27.1	24.3	30.1
	2015	721	36.0	63.1	0.9	0.0	36.0	28.2	42.8
Iran, Islamic Rep. of	2011	819	20.7	70.3	6.3	2.8	20.7	16.6	24.8
	2015	547	21.2	71.8	5.0	2.0	21.2	21.5	20.9
Ireland	2011	650	23.2	74.7	1.8	0.3	23.2	21.5	24.9
	2015	613	28.9	70.5	0.6	0.0	28.9	28.1	29.5
Italy	2011	593	25.6	70.6	2.9	0.9	25.6	23.8	27.6
	2015	621	28.8	67.6	3.3	0.3	28.8	20.8	36.5
Japan	2011	625	60.7	38.3	0.2	0.8	60.7	59.1	62.3
	2015	620	61.8	37.4	0.8	0.0	61.8	62.2	61.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_07 (M051217): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Length of the line in cm

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	38.2	56.1	4.1	1.6	38.2	32.9	43.7
	2015	671	52.2	47.1	0.7	0.0	52.2	52.0	52.3
Korea, Rep. of	2011	616	62.4	37.1	0.3	0.1	62.4	59.8	65.1
	2015	668	65.9	33.8	0.4	0.0	65.9	67.5	64.4
Kuwait	2011	588	1.2	84.4	12.7	1.7	1.2	0.3	2.4
	2015	511	4.5	81.8	11.4	2.4	4.5	4.6	4.4
Lithuania	2011	659	39.1	59.2	1.2	0.6	39.1	36.7	41.1
	2015	640	35.4	63.3	1.3	0.0	35.4	31.2	39.4
Morocco	2011	1135	5.4	75.2	14.4	5.0	5.4	5.2	5.6
	2015	714	11.4	82.5	5.1	1.1	11.4	9.2	13.3
Netherlands	2011	468	48.8	50.8	0.4	0.0	48.8	42.6	55.8
	2015	640	42.9	56.1	0.6	0.4	42.9	39.1	47.1
New Zealand	2011	792	24.9	73.2	1.6	0.3	24.9	21.5	28.3
	2015	897	23.9	73.4	2.3	0.4	23.9	23.4	24.3
Northern Ireland	2011	500	44.0	55.5	0.5	0.0	44.0	46.1	42.2
	2015	451	42.4	57.1	0.5	0.0	42.4	37.3	48.4
Oman	2011	1487	9.8	83.8	4.8	1.5	9.8	11.4	8.4
	2015	1292	17.9	78.3	3.1	0.7	17.9	17.8	17.9
Portugal	2011	585	40.8	58.3	0.6	0.2	40.8	33.0	47.7
	2015	662	35.6	62.6	1.7	0.2	35.6	31.6	39.2
Qatar	2011	586	11.3	83.6	4.3	0.8	11.3	8.7	13.7
	2015	739	11.9	84.1	2.9	1.0	11.9	10.2	13.9
Russian Federation	2011	648	48.6	48.4	2.5	0.4	48.6	45.0	51.9
	2015	707	32.6	67.0	0.4	0.0	32.6	30.1	35.0
Saudi Arabia	2011	673	9.7	85.4	4.4	0.6	9.7	5.9	13.8
	2015	617	7.8	83.4	6.0	2.7	7.8	6.3	9.1
Serbia	2011	629	34.5	61.7	2.1	1.7	34.5	33.3	35.7
	2015	572	37.1	57.7	4.3	0.9	37.1	33.5	40.9
Singapore	2011	906	49.0	50.3	0.7	0.0	49.0	46.6	51.3
	2015	931	54.8	44.9	0.3	0.0	54.8	56.3	53.2
Slovak Republic	2011	796	33.5	64.3	1.8	0.4	33.5	27.9	38.7
	2015	819	27.6	70.5	1.6	0.3	27.6	22.2	32.8
Slovenia	2011	646	37.4	59.4	3.1	0.1	37.4	30.0	45.2
	2015	635	45.6	52.4	1.6	0.4	45.6	39.4	52.2
Spain	2011	594	18.0	75.3	5.3	1.4	18.0	15.4	20.7
	2015	1117	23.7	73.4	2.2	0.7	23.7	19.9	28.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_07 (M051217): Geometric Shapes and Measures / Knowing Type: CR 1 Point  
Label: Length of the line in cm

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	43.7	52.2	3.1	1.0	43.7	39.0	47.4
	2015	595	53.6	43.2	1.5	1.7	53.6	54.0	53.0
Turkey	2011	1079	16.4	81.9	1.5	0.3	16.4	14.7	17.9
	2015	932	19.3	78.5	2.1	0.1	19.3	17.4	21.3
United Arab Emirates	2011	2083	11.6	85.3	2.6	0.5	11.6	10.3	12.9
	2015	3003	17.4	79.9	2.4	0.3	17.4	15.8	18.9
United States	2011	1791	23.6	73.0	1.8	1.6	23.6	20.6	26.8
	2015	1430	22.0	75.2	2.0	0.9	22.0	19.6	24.4
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International Avg (n=40)	2011	30333	31.8	64.2	3.1	0.9	31.8	28.6	34.9
	2015	30657	33.7	63.5	2.2	0.6	33.7	31.0	36.3
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Ontario, Canada	2011	651	23.0	73.2	2.2	1.6	23.0	23.7	22.3
	2015	655	21.3	76.7	1.6	0.4	21.3	19.1	23.2
Quebec, Canada	2011	617	33.9	62.5	2.9	0.6	33.9	27.2	41.0
	2015	404	32.5	66.6	0.6	0.4	32.5	26.3	39.6
Norway (4)	2011	442	30.5	65.3	3.3	0.9	30.5	27.5	33.1
	2015	590	27.1	66.9	3.5	2.4	27.1	26.1	28.3
Abu Dhabi, UAE	2011	591	8.9	87.9	2.7	0.4	8.9	7.2	10.6
	2015	709	11.7	86.3	1.6	0.5	11.7	10.2	13.0
Dubai, UAE	2011	869	17.3	80.6	1.7	0.4	17.3	17.9	16.7
	2015	1049	29.2	69.0	1.6	0.2	29.2	25.5	32.5
Florida, US	2011	375	20.1	76.7	2.1	1.2	20.1	19.8	20.4
	2015	290	20.1	77.8	1.7	0.4	20.1	23.5	17.2
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_08 (M051079): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw angle less than right angle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	47.5	51.3	1.2	0.1	47.5	51.1	43.9
	2015	864	47.2	51.4	0.6	0.8	47.2	50.2	44.6
Bahrain	2011	580	19.1	77.7	2.2	1.0	19.1	22.0	16.4
	2015	591	31.2	65.5	2.2	1.0	31.2	34.0	28.6
Belgium (Flemish)	2011	689	50.0	48.6	1.3	0.1	50.0	48.6	51.5
	2015	778	50.1	48.5	1.2	0.2	50.1	52.9	47.1
Chile	2011	787	25.3	66.6	5.7	2.4	25.3	29.5	21.6
	2015	684	31.3	62.7	3.6	2.4	31.3	31.0	31.6
Chinese Taipei	2011	622	53.3	45.7	0.8	0.2	53.3	58.2	49.1
	2015	618	57.3	41.6	1.1	0.0	57.3	62.5	52.2
Croatia	2011	656	44.9	49.5	4.6	1.0	44.9	49.8	40.8
	2015	575	50.4	45.1	3.8	0.7	50.4	55.7	45.3
Czech Republic	2011	652	27.6	64.8	7.1	0.5	27.6	30.4	25.2
	2015	749	35.8	59.9	3.9	0.4	35.8	37.5	34.2
Denmark	2011	555	45.3	51.3	2.1	1.3	45.3	47.3	43.3
	2015	516	48.4	45.8	3.5	2.2	48.4	51.9	45.4
England	2011	497	50.0	47.8	1.5	0.6	50.0	53.0	47.3
	2015	578	65.1	34.2	0.2	0.5	65.1	66.8	63.2
Finland	2011	657	34.4	61.3	4.3	0.1	34.4	34.6	34.1
	2015	714	30.1	64.7	4.9	0.3	30.1	35.4	25.6
Georgia	2011	699	15.8	70.6	8.7	4.9	15.8	16.8	14.8
	2015	553	18.8	75.5	5.4	0.4	18.8	20.2	17.4
Germany	2011	575	38.5	55.9	4.9	0.7	38.5	39.2	37.8
	2015	566	33.5	62.5	4.0	0.0	33.5	36.5	30.4
Hong Kong SAR	2011	561	70.3	29.5	0.2	0.0	70.3	68.8	71.7
	2015	507	74.0	26.0	0.0	0.0	74.0	74.6	73.4
Hungary	2011	744	31.5	65.3	2.1	1.1	31.5	31.7	31.2
	2015	721	37.2	61.3	1.5	0.0	37.2	36.7	37.6
Iran, Islamic Rep. of	2011	819	42.2	51.2	3.0	3.6	42.2	45.1	39.4
	2015	546	38.8	55.2	3.9	2.0	38.8	43.8	34.3
Ireland	2011	650	60.4	37.9	1.3	0.3	60.4	66.9	53.7
	2015	613	64.7	35.2	0.1	0.0	64.7	63.1	66.1
Italy	2011	593	42.1	52.5	4.5	1.0	42.1	42.3	41.8
	2015	621	42.6	52.9	4.2	0.3	42.6	40.5	44.9
Japan	2011	625	57.5	41.2	0.5	0.8	57.5	57.6	57.4
	2015	620	56.3	42.6	1.1	0.0	56.3	59.3	53.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M11\_08 (M051079): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw angle less than right angle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	34.8	61.4	1.8	2.0	34.8	33.8	35.9
	2015	671	35.7	62.5	1.8	0.0	35.7	37.1	34.4
Korea, Rep. of	2011	616	66.5	32.8	0.5	0.1	66.5	67.5	65.6
	2015	668	73.1	26.9	0.0	0.0	73.1	74.0	72.3
Kuwait	2011	588	14.5	72.3	10.9	2.3	14.5	17.6	10.7
	2015	509	12.6	77.0	7.8	2.7	12.6	13.4	11.7
Lithuania	2011	659	31.6	65.4	2.4	0.6	31.6	34.0	29.6
	2015	640	38.1	60.2	1.7	0.0	38.1	36.7	39.3
Morocco	2011	1135	10.2	73.9	10.5	5.4	10.2	12.4	7.9
	2015	718	17.2	75.3	6.0	1.5	17.2	18.9	15.7
Netherlands	2011	468	21.8	76.8	1.4	0.0	21.8	22.7	19.8
	2015	640	25.1	73.3	1.1	0.4	25.1	29.4	20.4
New Zealand	2011	792	27.8	70.2	1.7	0.3	27.8	29.7	25.9
	2015	897	31.3	66.5	1.7	0.5	31.3	34.2	28.4
Northern Ireland	2011	500	59.3	40.3	0.5	0.0	59.3	60.9	57.8
	2015	451	61.0	37.8	1.2	0.0	61.0	63.6	57.9
Oman	2011	1487	23.5	71.3	3.4	1.8	23.5	28.0	19.5
	2015	1292	34.0	62.7	2.5	0.8	34.0	37.1	30.9
Portugal	2011	585	56.0	43.0	0.8	0.2	56.0	58.3	54.1
	2015	662	62.2	36.5	1.1	0.2	62.2	63.4	61.2
Qatar	2011	586	17.6	78.6	3.0	0.8	17.6	20.0	15.4
	2015	739	25.8	70.0	3.2	1.0	25.8	29.0	22.2
Russian Federation	2011	648	51.9	46.4	1.1	0.6	51.9	54.1	49.8
	2015	707	57.1	41.9	1.0	0.0	57.1	59.3	55.0
Saudi Arabia	2011	673	26.1	69.2	4.0	0.7	26.1	28.2	23.9
	2015	616	19.1	70.6	7.6	2.7	19.1	20.8	17.5
Serbia	2011	629	34.2	59.9	4.1	1.8	34.2	36.4	31.9
	2015	572	41.8	52.7	4.7	0.9	41.8	39.4	44.4
Singapore	2011	906	81.5	17.8	0.6	0.0	81.5	81.4	81.7
	2015	931	80.9	18.8	0.3	0.0	80.9	84.4	77.3
Slovak Republic	2011	796	40.8	54.4	4.4	0.4	40.8	40.3	41.3
	2015	819	31.6	61.5	6.7	0.3	31.6	32.5	30.6
Slovenia	2011	646	34.2	61.9	3.6	0.2	34.2	33.8	34.6
	2015	635	43.1	53.9	2.5	0.4	43.1	46.6	39.4
Spain	2011	594	38.5	56.1	3.6	1.9	38.5	41.0	35.9
	2015	1117	50.0	46.8	2.5	0.7	50.0	48.5	51.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_08 (M051079): Geometric Shapes and Measures / Applying Type: CR 1 Point  
Label: Draw angle less than right angle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	31.0	63.3	4.6	1.2	31.0	32.3	29.9
	2015	595	43.1	51.5	3.3	2.1	43.1	48.4	38.6
Turkey	2011	1080	26.1	70.7	2.9	0.3	26.1	29.1	23.2
	2015	932	31.4	67.2	1.3	0.1	31.4	33.5	29.1
United Arab Emirates	2011	2083	25.7	70.1	3.5	0.7	25.7	29.4	21.9
	2015	3004	29.7	66.8	3.0	0.6	29.7	31.0	28.5
United States	2011	1791	55.1	42.7	0.5	1.7	55.1	58.2	51.9
	2015	1430	55.0	41.4	2.7	1.0	55.0	56.3	53.7
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International Avg (n=40)	2011	30340	39.1	56.7	3.1	1.1	39.1	41.0	37.2
	2015	30659	42.8	53.8	2.7	0.7	42.8	44.7	40.9
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Ontario, Canada	2011	651	43.6	52.4	2.2	1.8	43.6	47.6	39.5
	2015	655	48.1	50.1	1.5	0.4	48.1	51.0	45.4
Quebec, Canada	2011	617	30.9	64.9	3.3	0.9	30.9	29.4	32.5
	2015	404	31.9	64.2	3.4	0.5	31.9	31.9	32.0
Norway (4)	2011	442	32.4	62.7	3.7	1.2	32.4	38.2	27.5
	2015	590	32.2	62.4	3.0	2.4	32.2	34.8	29.2
Abu Dhabi, UAE	2011	591	25.7	70.7	3.0	0.6	25.7	31.0	20.5
	2015	709	24.2	72.7	2.5	0.5	24.2	24.3	24.1
Dubai, UAE	2011	869	31.0	63.3	5.3	0.4	31.0	34.1	28.2
	2015	1050	48.5	49.4	1.6	0.5	48.5	52.0	45.3
Florida, US	2011	375	70.2	28.1	0.0	1.7	70.2	71.3	68.9
	2015	290	65.1	33.1	1.5	0.4	65.1	68.9	61.8
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_09 (M051211): Geometric Shapes and Measures / Reasoning      Type: MC      Key: A  
Label: View of solid shape from above

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	73.7	73.7	14.7	4.0	6.8	0.7	0.1	74.3	73.1
	2015	864	70.2	70.2	15.3	4.4	7.7	1.6	0.9	69.0	71.3
Bahrain	2011	580	36.8	36.8	34.6	11.4	13.0	3.1	1.0	35.3	38.2
	2015	591	36.7	36.7	38.2	12.2	9.9	1.7	1.3	36.1	37.2
Belgium (Flemish)	2011	689	83.3	83.3	7.5	1.7	6.9	0.3	0.3	80.8	86.1
	2015	778	84.4	84.4	7.0	2.6	5.1	0.4	0.4	85.6	83.2
Chile	2011	787	59.9	59.9	21.9	5.6	6.9	2.1	3.6	55.9	63.3
	2015	684	65.2	65.2	18.0	6.2	6.6	1.5	2.6	61.2	69.1
Chinese Taipei	2011	622	72.0	72.0	16.5	4.0	6.1	1.2	0.2	74.2	70.1
	2015	618	72.1	72.1	16.6	5.2	5.6	0.6	0.0	73.4	70.8
Croatia	2011	656	61.8	61.8	21.8	5.1	8.6	1.5	1.2	61.5	62.0
	2015	575	65.2	65.2	22.1	5.1	5.9	1.1	0.7	61.8	68.4
Czech Republic	2011	652	74.2	74.2	13.7	5.5	5.1	1.0	0.5	75.8	72.8
	2015	749	77.1	77.1	14.3	2.4	5.2	0.3	0.8	74.4	79.7
Denmark	2011	555	79.2	79.2	8.5	1.7	8.0	1.3	1.3	74.0	84.4
	2015	516	83.4	83.4	5.6	2.5	3.4	1.9	3.2	80.5	85.8
England	2011	497	59.9	59.9	23.1	7.0	7.6	1.6	0.8	61.4	58.6
	2015	578	62.7	62.7	25.1	6.6	4.5	0.6	0.5	60.8	64.8
Finland	2011	657	88.5	88.5	6.8	1.0	3.0	0.6	0.1	88.7	88.4
	2015	714	82.3	82.3	8.9	2.9	2.0	3.5	0.4	83.8	81.0
Georgia	2011	699	47.9	47.9	21.1	15.1	8.0	2.7	5.1	49.6	46.5
	2015	553	59.3	59.3	24.7	8.2	5.8	1.4	0.5	60.7	58.1
Germany	2011	575	79.8	79.8	10.2	1.8	6.7	0.8	0.7	76.5	83.2
	2015	566	82.0	82.0	8.7	1.9	6.4	1.0	0.0	82.5	81.7
Hong Kong SAR	2011	561	79.6	79.6	12.0	2.5	5.1	0.8	0.0	73.3	85.4
	2015	507	83.8	83.8	10.1	2.2	3.8	0.1	0.0	81.0	86.2
Hungary	2011	746	72.8	72.8	15.5	5.6	4.1	0.4	1.5	71.7	74.0
	2015	721	72.3	72.3	17.8	4.4	4.3	0.9	0.3	68.6	75.5
Iran, Islamic Rep. of	2011	819	38.6	38.6	20.6	18.7	14.2	3.9	4.0	36.2	40.9
	2015	546	48.4	48.4	16.3	17.7	11.1	4.1	2.4	47.4	49.3
Ireland	2011	650	56.3	56.3	27.2	7.8	7.3	1.0	0.3	56.3	56.3
	2015	613	63.0	63.0	23.3	8.1	5.4	0.1	0.1	58.0	67.3
Italy	2011	593	63.1	63.1	18.7	7.5	7.8	1.3	1.5	61.3	65.1
	2015	621	69.8	69.8	17.5	5.9	5.5	1.0	0.3	73.8	65.9
Japan	2011	625	85.5	85.5	9.9	1.6	2.0	0.1	0.8	87.9	83.1
	2015	620	86.5	86.5	9.9	1.9	1.4	0.4	0.0	87.5	85.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_09 (M051211): Geometric Shapes and Measures / Reasoning      Type: MC      Key: A  
Label: View of solid shape from above

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	51.5	51.5	21.6	13.6	8.1	3.1	2.0	47.5	55.7
	2015	670	70.9	70.9	18.1	5.7	5.3	0.1	0.0	68.2	73.4
Korea, Rep. of	2011	616	87.9	87.9	9.0	0.8	2.0	0.2	0.1	88.7	87.1
	2015	668	86.9	86.9	8.4	1.0	3.4	0.4	0.0	86.7	87.0
Kuwait	2011	583	30.8	30.8	36.6	14.5	9.3	6.3	2.6	29.4	32.4
	2015	511	36.8	36.8	31.9	12.3	10.2	6.3	2.6	38.8	34.7
Lithuania	2011	659	75.3	75.3	13.5	3.1	5.7	1.8	0.6	74.9	75.7
	2015	640	73.5	73.5	15.2	5.5	4.6	1.1	0.0	70.2	76.6
Morocco	2011	1099	23.6	23.6	27.1	28.3	10.9	4.0	6.2	21.6	25.5
	2015	712	25.9	25.9	35.8	23.5	10.3	3.0	1.6	27.8	24.3
Netherlands	2011	468	88.6	88.6	5.8	1.0	3.9	0.7	0.0	85.0	92.8
	2015	640	85.7	85.7	8.1	0.9	3.3	1.5	0.4	88.7	82.5
New Zealand	2011	792	58.2	58.2	20.9	8.5	10.2	1.8	0.4	55.3	61.0
	2015	897	63.4	63.4	21.3	6.1	7.4	1.3	0.5	60.4	66.5
Northern Ireland	2011	500	52.7	52.7	33.0	5.5	8.0	0.9	0.0	52.8	52.6
	2015	444	53.0	53.0	29.4	7.6	9.5	0.5	0.0	50.3	56.2
Oman	2011	1487	29.6	29.6	35.0	21.0	9.2	3.2	1.9	30.9	28.4
	2015	1292	36.3	36.3	31.9	15.8	12.9	2.3	0.9	36.9	35.7
Portugal	2011	585	64.6	64.6	22.1	5.8	5.8	1.2	0.4	62.7	66.3
	2015	662	62.1	62.1	27.5	4.6	5.1	0.5	0.2	60.2	63.9
Qatar	2011	586	41.4	41.4	31.8	11.0	11.9	3.2	0.8	47.0	36.2
	2015	739	43.6	43.6	32.8	10.5	10.2	1.7	1.2	44.9	42.1
Russian Federation	2011	648	74.7	74.7	14.0	3.6	6.4	0.3	1.1	71.3	77.8
	2015	707	79.3	79.3	11.5	4.2	3.4	1.4	0.2	77.2	81.2
Saudi Arabia	2011	673	34.7	34.7	31.1	16.0	16.8	0.8	0.7	33.8	35.6
	2015	614	28.1	28.1	36.2	13.7	15.2	3.7	3.1	32.2	24.4
Serbia	2011	629	58.7	58.7	24.5	7.5	5.5	1.7	2.1	55.4	62.2
	2015	572	58.1	58.1	25.9	6.7	7.3	1.0	1.1	57.6	58.6
Singapore	2011	906	79.9	79.9	12.1	4.1	3.9	0.0	0.0	76.4	83.4
	2015	931	79.5	79.5	13.6	2.7	4.0	0.1	0.0	80.2	78.9
Slovak Republic	2011	796	65.9	65.9	18.5	6.9	7.0	0.9	0.8	66.9	64.9
	2015	819	73.9	73.9	14.0	6.0	5.1	0.7	0.4	73.0	74.7
Slovenia	2011	645	79.5	79.5	10.3	3.4	5.9	0.7	0.2	72.6	86.8
	2015	635	76.3	76.3	12.8	3.8	6.4	0.2	0.5	74.0	78.6
Spain	2011	594	59.0	59.0	23.1	5.6	6.9	2.9	2.5	59.8	58.2
	2015	1117	63.5	63.5	20.7	7.3	6.5	1.3	0.7	64.3	62.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_09 (M051211): Geometric Shapes and Measures / Reasoning      Type: MC      Key: A  
Label: View of solid shape from above

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	76.0	76.0	12.1	3.0	5.6	1.3	1.9	71.3	79.9
	2015	595	78.4	78.4	8.6	3.2	5.2	2.1	2.6	77.7	78.9
Turkey	2011	1080	41.2	41.2	30.7	12.8	14.5	0.4	0.3	41.0	41.5
	2015	932	44.1	44.1	32.0	10.0	12.9	0.8	0.1	46.5	41.5
United Arab Emirates	2011	2083	39.5	39.5	34.7	11.9	9.8	3.1	0.9	38.2	40.8
	2015	3003	45.3	45.3	33.9	9.1	9.0	2.0	0.6	45.5	45.1
United States	2011	1791	60.0	60.0	24.1	5.9	7.4	0.7	1.9	57.2	62.8
	2015	1430	60.7	60.7	25.5	5.1	6.2	1.4	1.1	57.2	64.2
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International Avg (n=40)	2011	30300	62.1	62.1	19.9	7.5	7.6	1.6	1.3	60.9	63.5
	2015	30644	64.7	64.7	19.9	6.6	6.6	1.4	0.8	64.1	65.3
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Ontario, Canada	2011	651	56.5	56.5	23.9	7.4	9.1	1.0	2.1	53.9	59.2
	2015	653	60.4	60.4	26.6	4.9	7.0	0.5	0.6	60.7	60.0
Quebec, Canada	2011	617	60.5	60.5	26.0	5.5	5.7	1.3	1.0	58.5	62.8
	2015	404	59.3	59.3	24.5	5.0	9.3	1.2	0.8	58.2	60.5
Norway (4)	2011	442	70.0	70.0	17.4	3.4	6.5	0.7	2.0	68.1	71.6
	2015	590	71.0	71.0	14.0	4.3	6.2	1.9	2.7	76.4	64.8
Abu Dhabi, UAE	2011	591	34.8	34.8	37.9	12.4	10.8	3.2	0.9	32.6	36.9
	2015	709	42.0	42.0	34.8	10.2	9.9	2.5	0.5	44.1	40.0
Dubai, UAE	2011	869	48.5	48.5	30.7	8.6	8.4	3.2	0.5	48.0	49.0
	2015	1049	56.5	56.5	28.9	6.2	6.1	1.8	0.5	55.1	57.7
Florida, US	2011	375	85.2	85.2	8.8	2.1	2.2	0.0	1.7	83.5	86.9
	2015	290	55.7	55.7	33.7	4.9	4.6	0.7	0.4	58.5	53.4
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M11\_10 (M051102): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Area of the given rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	33.2	42.8	19.2	33.2	1.5	3.0	0.4	36.5	29.8
	2015	864	35.3	42.0	13.6	35.3	3.5	4.7	0.9	36.0	34.7
Bahrain	2011	580	21.1	52.4	18.3	21.1	2.4	4.4	1.4	27.2	15.2
	2015	591	23.9	48.8	18.7	23.9	3.1	3.9	1.6	28.0	20.2
Belgium (Flemish)	2011	689	32.5	40.0	23.0	32.5	1.6	2.6	0.4	30.3	34.9
	2015	778	36.7	42.3	17.8	36.7	1.2	1.7	0.4	36.3	37.0
Chile	2011	787	20.5	51.4	15.6	20.5	2.7	5.5	4.3	20.8	20.3
	2015	684	24.6	49.8	14.9	24.6	2.7	4.9	3.0	27.0	22.3
Chinese Taipei	2011	622	86.6	4.1	6.7	86.6	2.0	0.1	0.5	92.1	81.9
	2015	618	91.8	2.0	5.5	91.8	0.0	0.7	0.0	93.3	90.4
Croatia	2011	656	48.9	34.4	9.4	48.9	1.9	4.0	1.5	52.6	45.8
	2015	575	44.9	43.4	7.5	44.9	1.2	2.4	0.7	46.8	43.1
Czech Republic	2011	652	25.3	49.1	14.1	25.3	2.9	7.5	1.2	25.8	24.8
	2015	749	28.6	50.3	13.1	28.6	2.7	4.4	0.8	28.4	28.8
Denmark	2011	555	47.4	35.0	8.2	47.4	0.8	7.1	1.5	48.2	46.6
	2015	516	51.0	30.3	9.4	51.0	1.4	4.3	3.7	55.1	47.5
England	2011	497	45.1	29.2	16.6	45.1	4.0	4.3	0.8	45.0	45.3
	2015	578	48.3	28.7	16.6	48.3	3.0	2.8	0.7	47.9	48.7
Finland	2011	657	22.4	47.5	24.4	22.4	1.3	4.3	0.1	22.8	22.0
	2015	714	21.0	53.9	16.4	21.0	0.8	6.9	1.1	19.9	22.0
Georgia	2011	699	37.2	33.7	18.8	37.2	2.1	2.6	5.5	37.7	36.8
	2015	553	28.5	37.6	27.4	28.5	2.0	4.0	0.5	26.5	30.4
Germany	2011	575	33.3	44.5	14.5	33.3	0.5	6.5	0.9	33.0	33.6
	2015	566	24.5	54.7	11.5	24.5	1.6	7.7	0.0	24.3	24.8
Hong Kong SAR	2011	561	81.7	3.7	12.7	81.7	0.6	1.4	0.0	79.3	83.9
	2015	507	88.2	3.8	6.3	88.2	1.0	0.7	0.0	86.1	90.0
Hungary	2011	746	31.6	44.5	17.7	31.6	2.8	1.8	1.6	29.4	34.1
	2015	721	31.1	44.6	18.7	31.1	2.7	2.3	0.6	30.5	31.6
Iran, Islamic Rep. of	2011	819	38.8	29.6	17.8	38.8	5.2	4.2	4.5	39.0	38.6
	2015	546	36.5	41.1	11.3	36.5	2.6	5.7	2.9	36.5	36.6
Ireland	2011	650	29.2	40.5	22.9	29.2	2.9	4.1	0.5	32.0	26.3
	2015	613	39.5	28.2	27.6	39.5	2.1	2.5	0.1	43.1	36.4
Italy	2011	593	30.7	43.1	14.7	30.7	2.1	7.7	1.6	35.0	26.2
	2015	621	32.0	42.6	15.9	32.0	2.0	7.1	0.5	29.9	34.1
Japan	2011	625	83.5	13.5	1.3	83.5	0.2	0.6	0.9	86.4	80.6
	2015	620	80.1	14.4	3.9	80.1	1.1	0.5	0.0	83.1	77.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_10 (M051102): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Area of the given rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	74.0	11.4	4.7	74.0	4.4	2.4	3.1	74.2	73.7
	2015	671	82.6	9.9	4.5	82.6	2.8	0.1	0.0	83.5	81.8
Korea, Rep. of	2011	616	90.7	2.3	6.1	90.7	0.4	0.3	0.1	91.3	90.0
	2015	668	17.8	21.5	59.2	17.8	1.0	0.6	0.0	15.4	20.0
Kuwait	2011	582	27.8	44.6	12.4	27.8	2.7	9.5	3.1	27.4	28.2
	2015	511	21.4	49.0	14.3	21.4	3.1	8.5	3.8	17.8	25.0
Lithuania	2011	659	80.1	10.4	4.5	80.1	1.8	2.6	0.7	81.5	78.9
	2015	640	72.0	16.9	7.5	72.0	1.8	1.8	0.1	68.9	74.9
Morocco	2011	1112	27.1	36.9	12.4	27.1	9.5	7.1	7.0	25.5	28.7
	2015	699	36.3	42.6	9.0	36.3	7.3	3.1	1.7	36.4	36.3
Netherlands	2011	468	31.2	45.8	17.8	31.2	2.2	2.8	0.2	30.8	32.1
	2015	640	50.4	29.7	15.3	50.4	1.7	2.5	0.4	54.4	46.0
New Zealand	2011	792	23.3	51.7	16.8	23.3	2.2	5.5	0.5	25.8	20.9
	2015	897	27.5	48.6	17.5	27.5	1.4	4.4	0.6	26.6	28.4
Northern Ireland	2011	500	66.7	17.8	8.9	66.7	3.1	3.5	0.0	71.7	62.3
	2015	436	71.5	17.2	8.5	71.5	2.3	0.4	0.0	73.1	69.7
Oman	2011	1487	32.6	42.6	11.9	32.6	4.8	5.5	2.6	36.5	29.1
	2015	1291	40.3	36.3	14.7	40.3	3.7	4.0	1.0	43.1	37.4
Portugal	2011	585	70.3	18.5	8.7	70.3	1.0	0.9	0.6	69.0	71.5
	2015	662	57.5	30.0	9.5	57.5	1.4	1.5	0.2	60.2	55.1
Qatar	2011	586	25.1	47.8	17.5	25.1	3.5	4.9	1.2	26.3	24.0
	2015	739	26.9	47.1	16.2	26.9	3.7	5.0	1.2	29.2	24.3
Russian Federation	2011	648	76.8	11.3	7.1	76.8	2.4	1.4	1.1	75.2	78.2
	2015	707	78.2	8.6	7.3	78.2	4.7	1.0	0.2	80.2	76.4
Saudi Arabia	2011	675	36.9	41.3	15.2	36.9	3.6	2.1	0.9	40.7	32.8
	2015	616	26.8	44.2	16.0	26.8	4.9	4.2	4.0	26.8	26.7
Serbia	2011	629	58.4	23.3	6.1	58.4	6.4	3.3	2.5	59.6	57.2
	2015	572	59.2	23.2	7.9	59.2	5.9	2.6	1.2	59.4	59.1
Singapore	2011	906	87.5	5.6	4.1	87.5	1.6	1.2	0.0	88.1	86.9
	2015	931	85.7	7.7	4.6	85.7	1.2	0.7	0.0	86.7	84.7
Slovak Republic	2011	796	27.1	42.5	23.1	27.1	2.9	3.2	1.2	29.6	24.9
	2015	819	24.4	47.9	20.4	24.4	2.9	3.8	0.6	25.2	23.7
Slovenia	2011	645	21.1	62.3	9.4	21.1	1.8	5.3	0.2	22.8	19.2
	2015	635	21.6	64.1	7.7	21.6	0.8	5.2	0.6	19.3	24.0
Spain	2011	594	12.3	66.3	11.8	12.3	0.6	6.1	2.9	10.4	14.2
	2015	1117	15.1	63.1	14.9	15.1	1.5	4.3	1.1	15.2	15.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_10 (M051102): Geometric Shapes and Measures / Applying      Type: MC      Key: C  
Label: Area of the given rectangle

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	20.0	40.3	29.2	20.0	0.8	7.4	2.2	22.4	18.1
	2015	595	25.6	43.1	19.2	25.6	3.3	5.4	3.4	28.2	23.5
Turkey	2011	1080	33.6	30.0	30.7	33.6	4.2	1.2	0.4	35.1	32.1
	2015	932	31.5	34.9	29.8	31.5	2.1	1.4	0.3	32.1	30.9
United Arab Emirates	2011	2083	28.1	49.8	13.2	28.1	2.7	4.8	1.5	29.2	26.9
	2015	3003	32.3	46.2	11.4	32.3	3.9	5.2	1.0	33.7	31.0
United States	2011	1791	55.0	25.0	13.3	55.0	0.8	3.8	2.0	55.0	55.0
	2015	1430	56.3	25.5	10.9	56.3	2.3	3.8	1.1	56.8	55.8
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International Avg (n=40)	2011	30314	43.9	34.2	14.0	43.9	2.5	3.9	1.5	45.0	42.8
	2015	30625	43.2	35.4	14.6	43.2	2.5	3.4	1.0	43.8	42.6
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Ontario, Canada	2011	651	31.4	39.6	19.9	31.4	3.4	3.2	2.5	32.8	30.0
	2015	655	28.8	41.9	19.2	28.8	2.8	6.4	0.9	31.1	26.7
Quebec, Canada	2011	617	32.0	36.0	21.8	32.0	3.1	6.2	1.0	31.5	32.5
	2015	404	36.4	38.3	20.6	36.4	1.8	1.9	0.9	33.4	39.9
Norway (4)	2011	442	34.2	37.6	19.2	34.2	1.4	5.3	2.2	33.6	34.7
	2015	590	30.3	38.2	20.1	30.3	1.8	6.6	3.1	32.7	27.6
Abu Dhabi, UAE	2011	591	24.4	55.3	12.2	24.4	2.5	3.9	1.6	22.5	26.3
	2015	709	29.1	49.2	10.4	29.1	2.6	7.5	1.2	31.2	27.1
Dubai, UAE	2011	869	30.2	43.8	17.3	30.2	3.4	4.2	0.9	29.8	30.6
	2015	1049	43.4	35.3	14.3	43.4	2.7	3.8	0.5	42.1	44.6
Florida, US	2011	375	72.4	15.7	5.9	72.4	2.4	2.0	1.7	77.6	66.9
	2015	290	59.9	20.0	12.7	59.9	3.4	3.7	0.4	64.5	55.8
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.



M11\_11 (M051009): Data Display / Applying Type: CR 1 Point  
Label: Family water use each day

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	45.6	51.5	2.1	0.7	45.6	43.1	48.1
	2015	864	42.4	54.5	2.0	1.1	42.4	33.2	50.4
Bahrain	2011	580	26.7	68.0	3.5	1.7	26.7	24.9	28.5
	2015	591	28.7	65.4	4.1	1.9	28.7	27.3	29.9
Belgium (Flemish)	2011	689	62.9	35.8	0.9	0.4	62.9	58.5	67.9
	2015	778	62.8	35.9	0.9	0.4	62.8	58.9	66.9
Chile	2011	787	38.3	53.4	3.9	4.5	38.3	40.2	36.6
	2015	684	38.8	53.8	3.7	3.7	38.8	37.2	40.3
Chinese Taipei	2011	622	79.5	19.7	0.3	0.5	79.5	79.4	79.5
	2015	618	73.3	26.0	0.7	0.0	73.3	74.1	72.4
Croatia	2011	656	51.7	41.0	5.2	2.1	51.7	44.6	57.6
	2015	575	52.5	43.9	2.9	0.7	52.5	44.7	60.1
Czech Republic	2011	652	54.3	38.9	4.9	2.0	54.3	52.9	55.5
	2015	749	59.2	37.1	2.9	0.9	59.2	53.7	64.5
Denmark	2011	555	62.1	33.4	2.9	1.6	62.1	57.8	66.4
	2015	516	55.8	37.8	2.6	3.8	55.8	56.1	55.6
England	2011	497	58.7	37.9	2.4	1.1	58.7	57.1	60.1
	2015	578	58.4	40.5	0.4	0.7	58.4	57.3	59.5
Finland	2011	657	63.2	34.8	1.8	0.2	63.2	58.0	68.3
	2015	714	56.9	38.7	2.5	1.9	56.9	54.4	59.0
Georgia	2011	699	38.4	49.7	5.8	6.1	38.4	37.8	39.0
	2015	553	40.3	53.3	5.6	0.8	40.3	37.7	42.7
Germany	2011	575	70.1	27.2	1.7	1.0	70.1	66.0	74.3
	2015	566	61.9	36.1	1.7	0.2	61.9	57.2	66.4
Hong Kong SAR	2011	561	65.4	34.2	0.4	0.0	65.4	59.5	70.9
	2015	507	70.2	29.7	0.2	0.0	70.2	72.0	68.6
Hungary	2011	745	57.4	38.3	2.5	1.8	57.4	56.8	58.1
	2015	721	60.4	38.2	0.6	0.8	60.4	56.4	63.9
Iran, Islamic Rep. of	2011	819	25.5	61.0	8.5	5.0	25.5	24.8	26.3
	2015	547	31.6	57.4	7.4	3.7	31.6	28.7	34.2
Ireland	2011	650	46.0	51.9	1.6	0.6	46.0	46.5	45.4
	2015	613	56.8	42.7	0.1	0.5	56.8	56.5	57.0
Italy	2011	593	42.9	51.4	3.8	1.9	42.9	38.3	47.9
	2015	621	45.5	50.3	3.6	0.5	45.5	39.3	51.6
Japan	2011	625	76.2	22.7	0.0	1.1	76.2	75.8	76.7
	2015	620	75.9	23.6	0.5	0.0	75.9	75.5	76.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_11 (M051009): Data Display / Applying Type: CR 1 Point  
Label: Family water use each day

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	49.2	42.8	4.5	3.5	49.2	45.2	53.4
	2015	671	60.2	38.5	1.3	0.0	60.2	60.8	59.7
Korea, Rep. of	2011	616	70.1	29.6	0.2	0.1	70.1	68.6	71.7
	2015	668	65.3	34.4	0.3	0.0	65.3	61.0	69.2
Kuwait	2011	588	8.5	76.9	10.7	3.9	8.5	8.0	9.0
	2015	508	11.7	76.5	7.6	4.1	11.7	10.2	13.2
Lithuania	2011	659	66.0	31.0	2.3	0.7	66.0	63.1	68.5
	2015	640	62.3	35.4	2.3	0.1	62.3	56.4	67.9
Morocco	2011	1135	11.5	61.0	19.8	7.6	11.5	9.8	13.2
	2015	718	17.5	74.4	5.6	2.5	17.5	15.5	19.2
Netherlands	2011	468	65.0	34.2	0.4	0.4	65.0	58.0	74.3
	2015	640	63.7	35.5	0.4	0.4	63.7	61.5	66.0
New Zealand	2011	792	40.0	58.2	1.2	0.5	40.0	41.6	38.5
	2015	897	41.9	55.4	2.1	0.6	41.9	38.8	45.0
Northern Ireland	2011	500	57.8	41.2	0.9	0.0	57.8	60.2	55.7
	2015	451	57.2	41.5	1.1	0.1	57.2	53.4	61.8
Oman	2011	1487	17.1	75.2	4.8	2.8	17.1	17.7	16.6
	2015	1292	22.0	73.3	3.6	1.1	22.0	21.3	22.7
Portugal	2011	585	60.7	38.0	0.7	0.6	60.7	58.7	62.4
	2015	662	58.0	40.0	1.7	0.4	58.0	53.0	62.5
Qatar	2011	304	32.6	60.3	6.5	0.5	32.6	32.5	32.7
	2015	739	27.6	68.4	2.2	1.7	27.6	25.6	29.8
Russian Federation	2011	648	58.7	38.6	1.7	1.1	58.7	54.1	63.0
	2015	707	65.1	33.4	1.2	0.3	65.1	62.8	67.2
Saudi Arabia	2011	672	18.3	76.9	3.7	1.1	18.3	14.0	23.0
	2015	617	14.5	75.3	5.4	4.8	14.5	16.1	13.0
Serbia	2011	629	57.1	35.1	4.6	3.2	57.1	55.5	58.7
	2015	572	57.5	36.4	4.9	1.2	57.5	52.0	63.4
Singapore	2011	906	68.2	31.2	0.5	0.1	68.2	65.2	71.1
	2015	931	70.8	29.1	0.1	0.0	70.8	72.1	69.4
Slovak Republic	2011	796	63.6	31.8	3.1	1.5	63.6	62.5	64.6
	2015	819	49.6	46.3	2.9	1.2	49.6	48.6	50.5
Slovenia	2011	646	53.4	40.6	5.6	0.4	53.4	47.5	59.5
	2015	635	50.9	47.4	1.0	0.6	50.9	46.0	56.3
Spain	2011	594	37.0	53.3	6.7	3.0	37.0	31.9	42.2
	2015	1117	48.8	47.1	2.9	1.2	48.8	44.3	54.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_11 (M051009): Data Display / Applying Type: CR 1 Point  
Label: Family water use each day

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	54.0	41.9	1.7	2.4	54.0	54.1	54.0
	2015	594	58.9	36.4	1.6	3.1	58.9	61.4	56.5
Turkey	2011	1079	41.3	55.9	2.5	0.4	41.3	38.4	44.0
	2015	932	43.1	54.6	1.9	0.4	43.1	37.4	49.4
United Arab Emirates	2011	2083	25.4	69.9	3.2	1.5	25.4	24.9	25.9
	2015	3002	32.9	62.8	2.9	1.3	32.9	31.4	34.3
United States	2011	1791	50.9	45.2	1.6	2.4	50.9	50.0	51.8
	2015	1430	55.0	42.8	0.9	1.2	55.0	54.7	55.3
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International Avg (n=40)	2011	30057	49.3	45.5	3.5	1.7	49.3	47.1	51.5
	2015	30657	50.1	46.3	2.4	1.2	50.1	47.6	52.6
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Ontario, Canada	2011	651	46.2	49.8	1.5	2.5	46.2	48.4	44.0
	2015	655	43.8	53.5	1.3	1.3	43.8	42.3	45.2
Quebec, Canada	2011	617	63.3	34.7	0.3	1.7	63.3	59.7	67.1
	2015	404	61.1	36.5	1.3	1.1	61.1	59.7	62.7
Norway (4)	2011	442	41.6	52.1	3.6	2.7	41.6	38.0	44.8
	2015	590	44.3	47.8	3.9	4.1	44.3	44.9	43.6
Abu Dhabi, UAE	2011	591	21.5	74.4	2.6	1.6	21.5	21.8	21.1
	2015	708	29.1	67.0	2.3	1.5	29.1	25.4	32.4
Dubai, UAE	2011	869	38.1	58.5	2.5	1.0	38.1	38.6	37.6
	2015	1049	48.2	50.1	1.2	0.5	48.2	47.8	48.6
Florida, US	2011	375	47.9	47.5	2.8	1.7	47.9	48.1	47.7
	2015	290	55.8	43.1	0.7	0.4	55.8	59.3	52.8
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M11\_12 (M051100): Data Display / Reasoning Type: MC Key: A  
Label: Favorite season of students

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	872	58.8	58.8	21.2	7.2	8.5	3.5	0.8	57.5	60.1
	2015	864	60.7	60.7	22.1	6.5	8.2	1.3	1.1	62.1	59.4
Bahrain	2011	580	48.2	48.2	27.3	9.4	10.4	2.0	2.7	46.0	50.4
	2015	591	44.1	44.1	29.3	9.0	12.3	1.6	3.6	47.9	40.7
Belgium (Flemish)	2011	689	56.5	56.5	27.0	5.2	8.5	2.0	0.8	54.8	58.4
	2015	778	58.0	58.0	27.6	5.3	7.6	1.0	0.4	59.2	56.8
Chile	2011	787	44.2	44.2	28.9	8.7	11.1	2.1	5.0	44.2	44.2
	2015	683	51.5	51.5	27.9	6.1	9.5	0.7	4.3	53.1	50.0
Chinese Taipei	2011	622	61.6	61.6	28.5	2.0	6.1	1.2	0.5	63.3	60.2
	2015	618	59.8	59.8	30.8	2.5	6.4	0.5	0.0	59.1	60.4
Croatia	2011	656	44.8	44.8	29.9	7.4	8.9	5.8	3.1	43.4	45.9
	2015	575	52.1	52.1	28.2	6.1	10.0	3.0	0.7	52.8	51.3
Czech Republic	2011	652	54.8	54.8	27.7	4.0	7.8	3.7	2.0	53.4	56.0
	2015	749	60.5	60.5	26.8	4.1	6.9	0.6	1.1	61.9	59.1
Denmark	2011	555	62.3	62.3	18.1	4.4	7.5	5.4	2.3	59.2	65.5
	2015	516	66.9	66.9	16.1	1.9	8.1	2.3	4.7	69.9	64.3
England	2011	497	57.8	57.8	20.6	7.1	10.5	1.8	2.2	58.9	56.7
	2015	578	58.7	58.7	26.3	4.2	9.7	0.3	0.8	58.0	59.4
Finland	2011	657	68.5	68.5	19.7	2.5	6.6	2.2	0.5	64.9	72.0
	2015	714	64.1	64.1	21.2	4.0	7.2	0.8	2.6	69.0	59.9
Georgia	2011	699	28.7	28.7	30.8	12.0	13.4	7.0	8.1	26.1	31.1
	2015	553	37.1	37.1	33.6	11.9	11.2	4.2	2.0	39.4	35.0
Germany	2011	575	63.9	63.9	22.1	2.8	7.4	2.5	1.4	64.8	62.9
	2015	566	67.2	67.2	20.6	2.9	6.7	2.3	0.2	67.1	67.1
Hong Kong SAR	2011	561	67.0	67.0	27.5	2.1	2.9	0.6	0.0	62.8	70.8
	2015	507	70.3	70.3	23.5	2.0	4.0	0.0	0.1	71.0	69.7
Hungary	2011	746	56.5	56.5	27.3	5.0	6.7	2.0	2.6	54.7	58.6
	2015	721	61.2	61.2	25.6	3.9	5.7	2.5	1.1	61.7	60.7
Iran, Islamic Rep. of	2011	819	36.6	36.6	18.7	19.3	11.0	8.2	6.2	41.3	31.8
	2015	547	38.2	38.2	27.2	11.5	13.2	5.1	4.7	37.6	38.8
Ireland	2011	650	53.5	53.5	26.7	4.7	12.6	1.9	0.6	53.0	54.0
	2015	613	61.4	61.4	22.8	4.9	10.1	0.2	0.5	60.0	62.6
Italy	2011	593	49.1	49.1	28.9	5.9	11.1	2.6	2.4	45.9	52.6
	2015	621	49.9	49.9	31.3	5.4	10.1	2.4	1.0	48.9	50.5
Japan	2011	625	81.6	81.6	12.5	1.0	3.3	0.7	1.1	83.4	79.7
	2015	620	78.6	78.6	15.9	1.4	4.1	0.0	0.1	77.6	79.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_12 (M051100): Data Display / Reasoning Type: MC Key: A  
Label: Favorite season of students

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	622	46.9	46.9	27.5	9.0	10.7	2.3	3.7	47.7	46.0
	2015	670	57.4	57.4	26.4	9.2	6.8	0.2	0.0	55.5	59.2
Korea, Rep. of	2011	616	76.0	76.0	18.0	1.3	3.6	1.0	0.1	77.6	74.4
	2015	668	78.4	78.4	18.1	0.7	2.8	0.0	0.1	77.0	79.6
Kuwait	2011	577	30.0	30.0	20.8	16.8	14.4	13.2	4.9	30.5	29.3
	2015	511	33.8	33.8	22.3	13.5	15.4	9.4	5.6	32.1	35.6
Lithuania	2011	659	59.4	59.4	23.2	4.7	8.7	3.1	0.9	58.4	60.3
	2015	640	60.3	60.3	30.6	2.3	5.3	1.1	0.4	57.8	62.7
Morocco	2011	1068	21.8	21.8	20.0	21.4	15.3	9.3	12.2	21.2	22.1
	2015	704	28.1	28.1	28.7	22.1	15.5	2.4	3.2	30.1	26.3
Netherlands	2011	468	62.3	62.3	22.1	3.9	9.0	2.2	0.4	59.8	65.5
	2015	640	67.1	67.1	19.1	3.4	8.5	1.2	0.6	65.3	69.1
New Zealand	2011	792	50.9	50.9	24.7	8.3	12.1	3.3	0.6	49.6	52.2
	2015	897	55.8	55.8	26.6	5.7	8.9	1.4	1.6	54.6	57.0
Northern Ireland	2011	500	62.1	62.1	23.7	3.8	8.4	2.0	0.0	67.3	57.6
	2015	439	64.5	64.5	16.2	5.4	13.8	0.1	0.0	64.1	65.0
Oman	2011	1487	34.7	34.7	25.3	15.4	16.0	4.9	3.6	35.4	34.1
	2015	1290	47.3	47.3	24.6	13.0	10.7	2.8	1.6	48.6	46.0
Portugal	2011	585	51.7	51.7	27.7	6.8	10.8	2.4	0.7	53.9	49.8
	2015	662	60.4	60.4	28.2	3.6	5.8	1.4	0.6	60.0	60.8
Qatar	2011	586	40.8	40.8	23.7	12.7	16.0	4.6	2.1	41.3	40.3
	2015	739	49.7	49.7	26.3	7.9	11.6	2.3	2.1	46.7	53.1
Russian Federation	2011	648	50.3	50.3	35.5	5.7	6.6	0.8	1.1	48.5	52.0
	2015	707	57.2	57.2	33.6	3.3	4.5	0.8	0.5	57.2	57.2
Saudi Arabia	2011	671	27.2	27.2	45.4	10.9	12.6	2.3	1.7	25.4	29.1
	2015	610	27.2	27.2	33.5	16.8	15.0	2.4	5.2	30.7	24.1
Serbia	2011	629	41.3	41.3	32.7	7.1	8.9	6.4	3.8	45.2	37.1
	2015	572	52.0	52.0	26.8	7.2	9.9	2.0	2.2	48.3	55.9
Singapore	2011	906	68.5	68.5	23.2	2.8	4.4	0.9	0.1	67.0	69.9
	2015	931	69.2	69.2	24.0	3.0	3.7	0.1	0.0	68.1	70.3
Slovak Republic	2011	796	53.6	53.6	27.1	5.9	9.7	2.0	1.7	53.5	53.6
	2015	819	54.3	54.3	28.4	6.0	8.2	1.3	1.9	54.6	54.0
Slovenia	2011	644	58.2	58.2	23.1	5.6	8.5	3.6	1.1	55.7	60.8
	2015	635	61.2	61.2	26.5	2.1	7.0	2.5	0.6	62.2	60.2
Spain	2011	594	47.7	47.7	28.3	6.0	8.4	5.1	4.4	44.6	50.9
	2015	1117	56.3	56.3	28.7	5.9	5.6	1.9	1.7	55.7	57.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M11\_12 (M051100): Data Display / Reasoning Type: MC Key: A  
Label: Favorite season of students

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	623	61.9	61.9	22.2	2.9	7.1	2.8	3.1	63.6	60.5
	2015	594	68.0	68.0	17.0	3.2	6.8	1.1	4.0	71.8	64.8
Turkey	2011	1080	48.5	48.5	28.0	7.0	13.9	1.8	0.8	49.8	47.3
	2015	932	46.0	46.0	34.2	7.2	11.8	0.4	0.4	48.2	43.6
United Arab Emirates	2011	2082	41.0	41.0	25.7	15.1	12.2	3.8	2.3	42.6	39.4
	2015	3003	50.7	50.7	25.8	9.0	9.9	2.7	1.9	53.9	48.0
United States	2011	1791	63.6	63.6	21.6	2.8	6.7	2.9	2.5	63.1	64.1
	2015	1430	63.4	63.4	23.9	2.9	6.6	1.6	1.6	66.1	60.8
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International Avg (n=40)	2011	30259	52.3	52.3	25.3	7.2	9.5	3.4	2.4	52.0	52.7
	2015	30624	56.2	56.2	25.7	6.2	8.6	1.7	1.6	56.6	55.9
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Ontario, Canada	2011	651	59.2	59.2	21.6	4.7	9.2	2.1	3.2	59.1	59.3
	2015	652	63.8	63.8	23.2	2.5	8.2	0.6	1.7	62.9	64.5
Quebec, Canada	2011	617	55.4	55.4	26.4	4.2	9.6	2.7	1.7	54.1	56.8
	2015	402	55.1	55.1	30.8	5.0	7.1	0.5	1.6	54.5	55.8
Norway (4)	2011	442	54.6	54.6	22.7	6.3	8.4	4.0	3.9	59.9	50.2
	2015	590	52.1	52.1	24.7	6.1	9.5	2.1	5.5	54.0	49.9
Abu Dhabi, UAE	2011	591	40.4	40.4	25.3	17.5	11.9	2.6	2.4	38.3	42.4
	2015	709	50.9	50.9	22.9	9.2	10.9	3.9	2.2	55.5	46.7
Dubai, UAE	2011	869	49.3	49.3	24.6	10.9	10.1	3.8	1.3	53.9	45.1
	2015	1049	58.1	58.1	28.3	3.9	7.3	1.8	0.6	58.2	58.0
Florida, US	2011	375	62.4	62.4	23.1	3.3	6.5	2.7	2.1	64.4	60.2
	2015	290	66.0	66.0	27.2	2.6	3.2	0.6	0.4	71.1	61.7
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_01 (M051043): Number / Knowing Type: CR 1 Point  
Label: Numbers with 6 as a factor

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	53.5	2.4	41.0	3.1	0.0	53.5	53.2	53.8
	2015	867	50.8	1.5	45.7	1.7	0.3	50.8	46.4	54.4
Bahrain	2011	588	23.1	5.2	66.1	5.4	0.1	23.1	17.6	28.7
	2015	589	35.7	8.9	52.1	3.3	0.0	35.7	35.3	36.1
Belgium (Flemish)	2011	692	80.4	2.8	15.9	0.8	0.2	80.4	79.1	81.7
	2015	773	78.2	2.1	19.6	0.0	0.0	78.2	78.5	77.9
Chile	2011	802	26.7	3.0	60.8	9.5	0.0	26.7	23.4	30.5
	2015	679	25.4	4.5	60.8	8.2	1.2	25.4	20.3	30.1
Chinese Taipei	2011	605	66.8	5.8	25.6	1.7	0.0	66.8	67.3	66.4
	2015	611	67.3	6.6	24.7	1.1	0.3	67.3	66.4	68.2
Croatia	2011	664	63.5	11.6	23.7	1.2	0.0	63.5	65.5	61.4
	2015	575	58.1	9.9	31.2	0.8	0.0	58.1	58.8	57.5
Czech Republic	2011	660	76.6	3.8	19.0	0.5	0.1	76.6	77.6	75.6
	2015	741	79.1	2.2	17.7	1.0	0.1	79.1	81.6	77.1
Denmark	2011	573	39.8	11.0	42.9	6.1	0.2	39.8	39.5	40.2
	2015	524	43.8	5.4	46.9	3.7	0.2	43.8	42.1	45.6
England	2011	469	63.1	3.3	30.5	3.2	0.0	63.1	61.1	65.0
	2015	562	63.4	5.3	29.4	1.8	0.0	63.4	58.1	69.0
Finland	2011	660	71.8	3.6	22.1	2.6	0.0	71.8	70.4	73.2
	2015	718	70.5	5.4	21.1	2.8	0.2	70.5	69.5	71.5
Georgia	2011	669	56.5	12.9	27.3	2.9	0.5	56.5	55.4	57.6
	2015	568	49.0	11.6	35.5	3.5	0.4	49.0	46.8	50.9
Germany	2011	568	90.6	0.6	6.8	2.0	0.0	90.6	88.8	92.3
	2015	571	90.8	0.7	7.2	1.1	0.2	90.8	92.1	89.7
Hong Kong SAR	2011	566	39.9	5.8	54.1	0.2	0.0	39.9	39.3	40.4
	2015	531	45.5	6.3	47.4	0.8	0.0	45.5	45.1	45.8
Hungary	2011	740	70.5	3.4	24.7	1.0	0.5	70.5	73.9	67.3
	2015	719	69.7	3.6	26.0	0.5	0.1	69.7	69.1	70.3
Iran, Islamic Rep. of	2011	815	45.1	5.8	45.3	3.4	0.4	45.1	48.2	42.1
	2015	548	27.9	7.9	52.6	10.9	0.7	27.9	29.7	26.1
Ireland	2011	652	66.8	3.3	26.5	3.3	0.1	66.8	69.5	64.1
	2015	616	61.4	2.6	33.6	2.5	0.0	61.4	60.9	61.8
Italy	2011	603	47.7	7.9	39.8	4.6	0.0	47.7	41.4	54.1
	2015	621	45.9	9.5	36.9	7.5	0.3	45.9	39.0	52.8
Japan	2011	628	46.6	11.2	40.3	1.4	0.5	46.6	49.3	44.1
	2015	628	41.6	12.1	43.8	2.4	0.0	41.6	41.6	41.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_01 (M051043): Number / Knowing      Type: CR    1 Point  
Label: Numbers with 6 as a factor

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	616	81.5	3.4	10.8	4.3	0.1	81.5	79.2	83.8
	2015	671	70.8	3.2	21.6	4.5	0.0	70.8	73.8	68.0
Korea, Rep. of	2011	618	39.4	12.0	47.3	1.1	0.1	39.4	38.2	40.5
	2015	662	33.4	14.3	51.4	0.9	0.0	33.4	32.2	34.5
Kuwait	2011	582	17.1	3.3	68.2	11.0	0.5	17.1	19.4	14.5
	2015	523	18.4	3.5	62.1	15.4	0.6	18.4	19.1	18.0
Lithuania	2011	667	63.1	7.3	26.1	3.4	0.1	63.1	62.1	64.0
	2015	638	62.7	9.6	26.4	1.2	0.0	62.7	62.5	62.9
Morocco	2011	1108	16.3	2.0	54.3	25.9	1.4	16.3	16.3	16.3
	2015	730	20.9	4.7	62.0	12.2	0.2	20.9	20.9	20.8
Netherlands	2011	458	62.0	15.6	21.3	1.1	0.0	62.0	61.2	63.0
	2015	630	56.7	8.2	34.0	0.9	0.2	56.7	54.7	58.8
New Zealand	2011	796	44.4	3.7	48.1	3.8	0.0	44.4	39.2	49.3
	2015	905	42.9	3.3	49.7	4.0	0.2	42.9	40.0	45.9
Northern Ireland	2011	518	65.2	5.9	25.2	3.6	0.1	65.2	69.5	60.5
	2015	439	61.3	5.2	31.0	2.5	0.0	61.3	58.4	65.0
Oman	2011	1487	17.1	4.3	63.8	14.4	0.5	17.1	18.2	15.9
	2015	1292	16.8	5.7	64.9	12.2	0.5	16.8	18.7	15.0
Portugal	2011	579	55.0	8.8	33.0	3.1	0.2	55.0	48.4	60.9
	2015	675	47.8	9.7	40.8	1.7	0.0	47.8	42.6	52.6
Qatar	2011	595	29.4	2.4	57.2	10.5	0.5	29.4	32.4	26.9
	2015	739	31.5	2.8	57.7	7.9	0.1	31.5	29.5	33.3
Russian Federation	2011	632	76.9	3.6	18.9	0.6	0.0	76.9	77.0	76.8
	2015	693	75.8	4.5	18.7	0.8	0.2	75.8	74.2	77.5
Saudi Arabia	2011	663	20.4	4.7	64.2	10.5	0.2	20.4	21.9	18.9
	2015	602	15.6	3.0	63.9	16.2	1.3	15.6	16.4	14.7
Serbia	2011	630	49.9	8.2	35.3	6.4	0.2	49.9	49.6	50.2
	2015	575	47.1	7.2	39.3	6.1	0.4	47.1	46.7	47.4
Singapore	2011	906	53.9	5.5	40.6	0.1	0.0	53.9	53.2	54.6
	2015	925	52.5	7.2	39.7	0.5	0.0	52.5	52.0	53.0
Slovak Republic	2011	813	75.4	3.7	19.7	1.1	0.0	75.4	73.9	77.0
	2015	836	70.1	4.7	23.2	1.8	0.1	70.1	70.7	69.6
Slovenia	2011	650	67.4	6.4	24.6	1.5	0.1	67.4	60.1	73.3
	2015	625	63.2	4.9	30.6	0.8	0.5	63.2	57.8	68.6
Spain	2011	580	36.7	6.0	49.9	7.3	0.0	36.7	29.8	42.6
	2015	1102	32.6	8.1	53.6	5.4	0.3	32.6	29.0	36.0

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M13\_01 (M051043): Number / Knowing Type: CR 1 Point  
Label: Numbers with 6 as a factor

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	44.9	5.6	40.7	8.4	0.3	44.9	40.9	48.3
	2015	593	47.1	2.9	45.5	4.5	0.0	47.1	42.5	52.4
Turkey	2011	1075	39.1	5.5	46.0	9.4	0.1	39.1	39.5	38.7
	2015	909	36.9	4.6	51.3	7.3	0.0	36.9	34.5	39.4
United Arab Emirates	2011	2081	37.7	4.5	49.1	8.5	0.2	37.7	35.5	39.9
	2015	3029	33.1	4.3	52.4	10.1	0.2	33.1	32.8	33.4
United States	2011	1811	51.9	4.4	40.9	2.8	0.1	51.9	50.0	54.0
	2015	1434	48.7	7.9	41.2	1.8	0.4	48.7	47.5	49.8
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International Avg (n=40)	2011	30356	51.8	5.8	37.4	4.8	0.2	51.8	50.9	52.7
	2015	30668	49.8	5.9	39.8	4.3	0.2	49.8	48.4	51.1
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Ontario, Canada	2011	638	48.2	2.5	44.6	4.7	0.0	48.2	45.8	50.3
	2015	641	46.8	2.8	46.9	2.9	0.6	46.8	40.7	52.1
Quebec, Canada	2011	601	50.1	7.0	40.2	2.2	0.6	50.1	45.0	55.5
	2015	401	48.1	7.0	43.1	1.3	0.5	48.1	45.2	50.8
Norway (4)	2011	447	51.1	3.2	40.7	5.0	0.0	51.1	53.7	48.2
	2015	608	58.8	2.1	35.7	3.2	0.2	58.8	57.0	60.3
Abu Dhabi, UAE	2011	583	33.3	4.8	53.7	7.9	0.2	33.3	29.9	36.6
	2015	721	26.5	2.9	56.8	13.6	0.2	26.5	26.2	26.9
Dubai, UAE	2011	881	46.1	3.5	41.5	8.9	0.1	46.1	42.1	49.7
	2015	1063	42.4	5.3	46.8	5.6	0.0	42.4	42.2	42.5
Florida, US	2011	366	47.9	8.9	40.7	2.6	0.0	47.9	45.8	50.0
	2015	299	52.8	9.1	36.1	2.0	0.0	52.8	52.8	52.8
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_02 (M051040): Number / Knowing Type: MC Key: A  
Label: Figure with three quarters shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	81.2	81.2	1.7	6.4	8.5	2.1	0.0	85.7	77.0
	2015	867	85.6	85.6	1.9	2.9	6.2	3.1	0.3	88.5	83.2
Bahrain	2011	588	74.4	74.4	1.1	8.8	10.8	4.5	0.3	76.6	72.2
	2015	589	74.7	74.7	2.3	9.3	10.4	3.3	0.0	78.2	71.1
Belgium (Flemish)	2011	692	91.0	91.0	1.3	2.5	2.8	2.2	0.2	91.6	90.4
	2015	773	88.5	88.5	0.7	4.1	2.4	4.2	0.0	88.1	88.9
Chile	2011	802	77.3	77.3	2.2	6.5	11.4	2.5	0.0	79.9	74.4
	2015	679	84.8	84.8	2.0	4.8	6.3	0.7	1.4	85.9	83.8
Chinese Taipei	2011	605	85.7	85.7	0.4	1.7	2.4	9.7	0.0	86.8	84.8
	2015	611	86.8	86.8	0.3	1.7	3.1	7.9	0.3	87.7	85.7
Croatia	2011	664	32.6	32.6	5.7	10.4	42.3	9.1	0.0	33.2	31.9
	2015	575	29.6	29.6	18.3	17.8	24.4	9.9	0.0	33.0	26.5
Czech Republic	2011	660	55.7	55.7	6.6	8.6	22.1	6.9	0.1	55.9	55.5
	2015	741	65.8	65.8	5.3	6.9	16.4	5.5	0.1	71.6	61.0
Denmark	2011	573	71.4	71.4	2.2	5.6	11.5	8.9	0.3	75.7	66.9
	2015	524	75.9	75.9	2.0	5.9	8.5	7.2	0.5	75.8	75.9
England	2011	469	81.8	81.8	2.6	5.2	8.8	1.6	0.0	82.6	81.0
	2015	563	83.6	83.6	2.8	6.1	4.7	2.8	0.0	83.9	83.3
Finland	2011	660	86.0	86.0	1.6	5.6	2.7	4.1	0.0	87.2	84.7
	2015	718	81.7	81.7	1.5	6.8	3.8	6.1	0.2	84.7	78.8
Georgia	2011	669	48.5	48.5	3.2	11.9	28.3	7.6	0.5	53.9	43.0
	2015	568	48.0	48.0	6.0	10.7	30.8	4.1	0.4	47.4	48.5
Germany	2011	568	58.2	58.2	12.1	4.7	19.1	5.9	0.0	58.4	58.1
	2015	571	57.1	57.1	10.9	6.4	19.0	6.1	0.6	55.3	58.4
Hong Kong SAR	2011	566	97.0	97.0	0.9	0.6	0.4	1.1	0.0	99.1	95.3
	2015	531	97.3	97.3	0.3	0.2	0.7	1.4	0.0	96.8	97.7
Hungary	2011	740	70.7	70.7	2.2	7.1	14.6	4.9	0.5	74.8	66.9
	2015	719	66.7	66.7	3.8	8.0	13.7	7.7	0.1	68.3	65.2
Iran, Islamic Rep. of	2011	815	73.2	73.2	2.8	8.1	10.6	4.9	0.4	80.7	65.9
	2015	548	76.0	76.0	4.6	4.5	9.6	4.6	0.7	84.4	67.9
Ireland	2011	652	81.0	81.0	3.7	4.9	9.3	1.0	0.1	84.2	77.7
	2015	616	83.1	83.1	1.7	3.3	9.4	2.5	0.0	84.2	81.9
Italy	2011	603	79.6	79.6	1.4	3.6	12.3	3.1	0.0	80.1	79.2
	2015	621	80.9	80.9	2.0	3.9	10.6	2.4	0.3	80.1	81.5
Japan	2011	628	79.1	79.1	0.6	2.7	4.6	12.6	0.5	83.9	74.3
	2015	628	79.3	79.3	0.3	2.8	3.3	14.3	0.0	84.6	73.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_02 (M051040): Number / Knowing Type: MC Key: A  
Label: Figure with three quarters shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	57.4	57.4	3.1	9.7	27.6	2.1	0.1	56.8	58.0
	2015	671	67.4	67.4	2.3	8.7	20.9	0.7	0.0	74.9	60.6
Korea, Rep. of	2011	618	97.4	97.4	0.2	1.4	0.4	0.5	0.1	98.7	96.2
	2015	662	94.3	94.3	0.0	0.3	1.4	4.0	0.0	95.0	93.7
Kuwait	2011	578	57.0	57.0	4.4	11.2	17.8	8.9	0.6	66.6	46.4
	2015	523	51.1	51.1	5.7	10.4	19.8	12.1	0.9	55.0	48.1
Lithuania	2011	667	70.6	70.6	0.7	5.3	15.7	7.6	0.1	78.5	63.5
	2015	638	70.9	70.9	2.4	7.2	13.7	5.8	0.0	77.7	63.7
Morocco	2011	920	41.4	41.4	19.0	15.1	24.2	0.2	0.0	47.0	36.1
	2015	715	46.1	46.1	15.4	9.4	25.0	4.1	0.0	45.5	46.8
Netherlands	2011	458	87.5	87.5	0.7	4.8	4.8	2.2	0.0	88.7	86.1
	2015	628	85.0	85.0	0.6	4.9	5.0	4.3	0.2	88.3	81.7
New Zealand	2011	796	72.2	72.2	4.7	5.2	15.1	2.8	0.0	76.0	68.7
	2015	905	80.4	80.4	2.7	4.2	8.9	3.4	0.2	85.1	75.6
Northern Ireland	2011	518	87.0	87.0	2.3	3.7	2.5	4.3	0.1	89.0	84.8
	2015	433	89.6	89.6	2.1	2.3	4.9	1.1	0.0	91.1	87.9
Oman	2011	1486	62.3	62.3	3.1	10.0	19.3	4.5	0.9	64.9	59.5
	2015	1292	66.8	66.8	3.4	9.1	18.2	2.1	0.5	73.7	60.2
Portugal	2011	579	54.6	54.6	3.0	4.4	34.9	2.9	0.2	56.9	52.6
	2015	675	82.5	82.5	1.5	4.7	4.0	7.3	0.0	87.8	77.5
Qatar	2011	595	66.4	66.4	3.3	9.1	12.8	7.8	0.6	73.4	60.5
	2015	739	71.3	71.3	2.4	7.4	14.0	4.8	0.2	74.3	68.4
Russian Federation	2011	632	64.3	64.3	3.6	8.5	19.3	4.2	0.0	64.9	63.8
	2015	693	65.2	65.2	2.1	8.2	21.5	3.0	0.2	67.8	62.6
Saudi Arabia	2011	656	65.1	65.1	4.3	11.3	17.6	1.5	0.2	68.6	61.1
	2015	590	68.1	68.1	3.1	10.1	14.1	2.8	1.7	73.2	62.4
Serbia	2011	630	68.3	68.3	2.7	5.9	17.3	5.5	0.2	68.5	68.2
	2015	575	67.2	67.2	3.0	8.3	16.8	4.3	0.4	72.3	62.3
Singapore	2011	906	95.7	95.7	1.0	1.2	2.1	0.1	0.0	97.4	93.9
	2015	925	95.8	95.8	0.5	1.0	2.6	0.2	0.0	96.5	95.1
Slovak Republic	2011	813	56.0	56.0	7.1	6.4	26.1	4.3	0.0	59.2	52.7
	2015	836	58.9	58.9	6.5	6.6	21.8	6.2	0.1	60.9	56.8
Slovenia	2011	635	74.2	74.2	3.0	5.8	14.5	2.4	0.1	75.2	73.4
	2015	625	76.1	76.1	1.6	6.1	12.3	3.3	0.6	77.8	74.4
Spain	2011	580	62.9	62.9	2.9	7.5	9.9	16.8	0.0	66.9	59.4
	2015	1102	65.7	65.7	2.5	7.8	12.2	11.3	0.6	63.8	67.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_02 (M051040): Number / Knowing Type: MC Key: A  
Label: Figure with three quarters shaded

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	50.5	50.5	7.5	7.6	27.3	6.7	0.3	54.9	46.8
	2015	593	59.3	59.3	7.5	8.4	20.2	4.6	0.0	58.7	59.9
Turkey	2011	1075	78.1	78.1	1.3	7.7	12.4	0.4	0.1	82.2	74.8
	2015	909	76.7	76.7	3.9	7.2	11.0	1.1	0.0	80.3	73.0
United Arab Emirates	2011	2081	65.9	65.9	2.8	9.1	15.0	7.0	0.3	70.8	60.9
	2015	3029	70.3	70.3	2.7	7.6	13.6	5.5	0.2	73.3	67.5
United States	2011	1811	90.4	90.4	0.8	3.4	3.2	2.1	0.1	92.2	88.3
	2015	1434	91.6	91.6	1.0	2.6	1.9	2.4	0.4	92.7	90.7
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International Avg (n=40)	2011	30142	71.2	71.2	3.3	6.5	14.1	4.7	0.2	74.2	68.4
	2015	30634	73.6	73.6	3.5	6.2	11.7	4.7	0.3	76.1	71.2
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Ontario, Canada	2011	638	77.5	77.5	3.4	3.9	11.2	3.7	0.2	73.8	80.8
	2015	631	78.3	78.3	2.7	6.5	11.4	0.5	0.6	79.0	77.6
Quebec, Canada	2011	601	84.6	84.6	1.5	5.1	4.5	3.7	0.6	82.8	86.5
	2015	391	85.6	85.6	2.3	7.3	3.8	0.5	0.5	87.6	83.8
Norway (4)	2011	447	69.4	69.4	0.6	6.6	12.6	10.7	0.1	71.7	66.9
	2015	608	65.5	65.5	2.6	5.3	13.7	12.4	0.5	67.2	64.1
Abu Dhabi, UAE	2011	583	62.6	62.6	3.1	11.0	15.4	7.6	0.2	67.9	57.5
	2015	721	65.8	65.8	4.3	8.7	15.4	5.4	0.4	66.9	64.9
Dubai, UAE	2011	881	70.5	70.5	1.6	7.6	13.4	6.9	0.1	73.5	67.8
	2015	1063	81.5	81.5	1.7	6.0	7.8	3.0	0.0	81.9	81.2
Florida, US	2011	366	93.6	93.6	1.4	1.9	1.1	2.0	0.0	96.8	90.3
	2015	299	90.5	90.5	1.8	2.8	3.4	1.5	0.0	92.1	89.1
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_03 (M051008): Number / Reasoning      Type: CR      1 Point  
Label: Who paid less for each bottle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	15.5	82.8	1.7	0.0	15.5	16.1	15.0
	2015	867	13.7	85.0	1.0	0.3	13.7	12.2	15.0
Bahrain	2011	588	6.6	90.3	2.8	0.3	6.6	5.9	7.3
	2015	590	8.8	90.5	0.7	0.0	8.8	8.7	8.9
Belgium (Flemish)	2011	692	6.3	92.6	1.0	0.2	6.3	6.7	5.9
	2015	773	25.3	73.6	1.0	0.0	25.3	24.7	26.0
Chile	2011	802	11.3	86.3	2.1	0.3	11.3	10.5	12.2
	2015	679	9.8	85.5	3.1	1.7	9.8	11.9	7.8
Chinese Taipei	2011	605	50.7	49.1	0.2	0.0	50.7	48.8	52.4
	2015	611	43.0	56.3	0.4	0.3	43.0	44.9	41.1
Croatia	2011	664	24.8	73.9	1.3	0.0	24.8	24.3	25.4
	2015	575	31.6	67.1	1.2	0.0	31.6	31.5	31.7
Czech Republic	2011	660	27.8	69.5	2.6	0.1	27.8	30.3	25.3
	2015	741	27.7	69.7	2.6	0.1	27.7	32.1	24.1
Denmark	2011	573	19.0	76.5	4.0	0.5	19.0	22.9	14.8
	2015	525	23.4	73.7	2.4	0.5	23.4	23.1	23.7
England	2011	469	25.1	73.6	1.3	0.0	25.1	23.1	26.9
	2015	563	27.6	71.0	1.1	0.2	27.6	27.4	27.8
Finland	2011	660	12.9	85.7	1.4	0.0	12.9	10.6	15.2
	2015	718	14.9	82.5	2.5	0.2	14.9	13.7	16.0
Georgia	2011	668	22.9	73.9	2.9	0.4	22.9	27.2	18.5
	2015	568	16.8	79.3	3.5	0.4	16.8	18.9	14.9
Germany	2011	568	19.9	76.2	3.9	0.0	19.9	19.3	20.6
	2015	571	18.4	78.0	3.0	0.6	18.4	17.9	18.8
Hong Kong SAR	2011	566	49.7	49.9	0.4	0.0	49.7	52.0	47.9
	2015	531	63.8	35.7	0.5	0.0	63.8	61.4	65.7
Hungary	2011	740	22.1	76.4	1.0	0.5	22.1	23.4	20.8
	2015	719	25.3	73.1	0.7	0.9	25.3	26.9	23.9
Iran, Islamic Rep. of	2011	815	9.5	88.1	1.5	0.9	9.5	9.8	9.2
	2015	548	7.4	88.0	3.9	0.7	7.4	8.9	6.1
Ireland	2011	652	20.1	78.2	1.7	0.1	20.1	21.5	18.5
	2015	616	30.1	68.8	0.6	0.5	30.1	30.0	30.2
Italy	2011	603	17.5	80.3	2.2	0.0	17.5	17.7	17.4
	2015	621	14.3	81.5	3.9	0.3	14.3	12.2	16.5
Japan	2011	628	49.5	49.7	0.3	0.5	49.5	51.4	47.6
	2015	628	49.0	50.6	0.4	0.0	49.0	51.2	46.7

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_03 (M051008): Number / Reasoning      Type: CR    1 Point  
Label: Who paid less for each bottle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	28.5	58.4	12.6	0.5	28.5	25.9	31.2
	2015	671	78.2	19.9	1.9	0.0	78.2	81.2	75.6
Korea, Rep. of	2011	618	45.5	54.2	0.1	0.1	45.5	45.5	45.5
	2015	662	48.4	51.6	0.0	0.0	48.4	47.7	49.1
Kuwait	2011	581	1.3	93.9	3.9	0.9	1.3	1.7	0.8
	2015	522	3.4	91.2	4.4	1.0	3.4	4.0	3.0
Lithuania	2011	667	23.5	75.5	0.9	0.1	23.5	27.8	19.7
	2015	638	32.0	65.8	2.1	0.0	32.0	37.5	26.3
Morocco	2011	1109	2.3	91.9	2.9	2.9	2.3	2.5	2.1
	2015	731	5.0	92.5	2.1	0.4	5.0	4.3	5.8
Netherlands	2011	458	23.2	76.4	0.5	0.0	23.2	26.4	18.7
	2015	630	22.4	75.5	2.0	0.2	22.4	21.5	23.2
New Zealand	2011	796	11.2	87.6	1.2	0.0	11.2	11.0	11.4
	2015	905	14.7	83.2	1.5	0.5	14.7	14.8	14.7
Northern Ireland	2011	518	31.4	68.0	0.5	0.1	31.4	35.2	27.2
	2015	439	33.5	63.8	2.6	0.1	33.5	31.9	35.5
Oman	2011	1487	4.3	93.2	1.6	0.9	4.3	5.4	3.1
	2015	1292	5.5	91.9	2.1	0.5	5.5	6.9	4.2
Portugal	2011	579	35.7	63.3	0.9	0.2	35.7	36.2	35.2
	2015	675	32.0	66.6	1.4	0.0	32.0	33.7	30.5
Qatar	2011	595	9.3	87.2	2.7	0.8	9.3	9.7	9.0
	2015	739	10.4	87.3	2.0	0.3	10.4	11.5	9.4
Russian Federation	2011	632	36.7	63.1	0.2	0.0	36.7	38.3	35.3
	2015	693	43.5	54.9	1.4	0.2	43.5	47.8	39.2
Saudi Arabia	2011	663	6.2	92.1	1.6	0.2	6.2	3.3	9.3
	2015	602	10.4	85.7	2.1	1.8	10.4	13.7	6.8
Serbia	2011	630	32.9	65.9	0.8	0.3	32.9	30.7	35.0
	2015	575	33.8	60.8	5.1	0.4	33.8	36.6	31.1
Singapore	2011	906	53.6	46.2	0.2	0.0	53.6	56.1	51.0
	2015	925	48.2	51.7	0.1	0.0	48.2	49.1	47.3
Slovak Republic	2011	813	28.9	69.5	1.5	0.0	28.9	28.6	29.3
	2015	836	21.6	76.8	1.6	0.1	21.6	20.6	22.5
Slovenia	2011	650	18.1	79.9	1.9	0.1	18.1	14.1	21.3
	2015	625	19.0	77.4	3.0	0.6	19.0	15.2	22.8
Spain	2011	580	16.7	80.7	2.7	0.0	16.7	15.4	17.8
	2015	1102	20.4	77.2	1.8	0.6	20.4	20.0	20.8

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_03 (M051008): Number / Reasoning      Type: CR    1 Point  
Label: Who paid less for each bottle

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	14.7	81.9	3.1	0.3	14.7	13.9	15.3
	2015	593	20.2	74.6	5.1	0.1	20.2	20.2	20.1
Turkey	2011	1077	20.6	78.0	1.3	0.1	20.6	20.8	20.5
	2015	909	19.9	79.3	0.9	0.0	19.9	19.8	19.9
United Arab Emirates	2011	2081	10.5	87.9	1.3	0.4	10.5	10.4	10.6
	2015	3029	10.7	87.1	2.0	0.2	10.7	10.9	10.4
United States	2011	1811	22.2	75.8	1.8	0.2	22.2	22.6	21.8
	2015	1434	26.1	72.9	0.4	0.6	26.1	25.7	26.5
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International Avg (n=40)	2011	30358	22.2	75.6	1.9	0.3	22.2	22.6	21.8
	2015	30671	25.3	72.4	2.0	0.4	25.3	25.8	24.7
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Ontario, Canada	2011	638	17.9	80.8	1.1	0.2	17.9	13.7	21.7
	2015	641	17.4	81.0	1.0	0.6	17.4	14.2	20.3
Quebec, Canada	2011	601	26.1	70.4	2.9	0.6	26.1	26.7	25.6
	2015	401	20.8	76.8	1.9	0.5	20.8	18.7	22.9
Norway (4)	2011	447	7.2	89.6	2.8	0.3	7.2	7.6	6.9
	2015	608	8.9	88.5	2.2	0.5	8.9	9.7	8.2
Abu Dhabi, UAE	2011	583	8.7	89.8	1.2	0.4	8.7	5.8	11.4
	2015	721	6.6	91.2	1.9	0.4	6.6	7.2	6.1
Dubai, UAE	2011	881	13.5	84.1	2.1	0.3	13.5	14.7	12.5
	2015	1063	19.4	79.3	1.2	0.0	19.4	20.5	18.4
Florida, US	2011	366	24.2	73.6	2.2	0.0	24.2	23.2	25.1
	2015	299	27.0	72.1	0.9	0.0	27.0	28.6	25.7
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_04A (M051031A): Number / Applying Type: CR 1 Point  
Label: Fraction watered on Monday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	51.5	44.7	3.8	0.0	51.5	57.5	45.7
	2015	867	56.3	40.6	2.6	0.4	56.3	56.5	56.2
Bahrain	2011	588	33.2	61.1	5.2	0.5	33.2	38.1	28.3
	2015	590	34.6	60.6	4.8	0.0	34.6	40.7	28.3
Belgium (Flemish)	2011	692	47.3	51.3	1.1	0.3	47.3	51.1	43.4
	2015	773	47.3	50.0	2.7	0.0	47.3	47.8	46.8
Chile	2011	802	38.6	55.9	5.3	0.3	38.6	38.4	38.8
	2015	679	44.2	46.2	7.7	1.9	44.2	45.1	43.4
Chinese Taipei	2011	605	77.7	20.4	1.9	0.0	77.7	82.7	73.2
	2015	611	77.1	21.6	1.0	0.3	77.1	78.3	76.0
Croatia	2011	664	7.9	67.3	24.7	0.1	7.9	7.7	8.2
	2015	575	9.8	74.3	15.5	0.4	9.8	7.4	12.0
Czech Republic	2011	660	33.2	44.3	21.9	0.6	33.2	31.6	34.8
	2015	741	48.5	40.7	10.7	0.1	48.5	52.0	45.7
Denmark	2011	573	62.5	31.5	5.5	0.5	62.5	66.9	57.8
	2015	525	69.1	25.9	4.2	0.8	69.1	73.4	64.5
England	2011	469	64.6	32.8	2.6	0.0	64.6	65.2	64.1
	2015	563	63.7	34.3	1.8	0.2	63.7	68.3	58.9
Finland	2011	660	73.5	24.0	2.5	0.0	73.5	76.2	70.8
	2015	718	68.9	27.8	3.2	0.2	68.9	75.6	62.4
Georgia	2011	673	20.1	69.3	9.5	1.2	20.1	18.9	21.2
	2015	568	18.6	71.6	9.3	0.5	18.6	16.7	20.3
Germany	2011	568	14.7	66.6	18.4	0.3	14.7	14.6	14.8
	2015	571	16.1	67.8	15.5	0.6	16.1	11.9	19.4
Hong Kong SAR	2011	566	82.8	16.9	0.3	0.0	82.8	84.6	81.4
	2015	531	88.1	10.3	1.6	0.0	88.1	89.9	86.7
Hungary	2011	740	48.7	48.4	2.2	0.6	48.7	54.5	43.4
	2015	719	42.5	54.7	1.8	1.0	42.5	43.3	41.9
Iran, Islamic Rep. of	2011	815	40.7	48.8	9.3	1.1	40.7	45.9	35.5
	2015	548	42.4	47.9	8.9	0.8	42.4	49.7	35.4
Ireland	2011	652	69.2	28.6	2.1	0.1	69.2	72.6	65.7
	2015	616	72.6	26.3	0.6	0.5	72.6	77.3	67.9
Italy	2011	603	51.9	44.5	3.5	0.2	51.9	54.3	49.4
	2015	621	51.1	42.7	6.0	0.3	51.1	49.7	52.6
Japan	2011	628	74.3	24.0	1.2	0.5	74.3	81.5	67.4
	2015	628	76.0	23.2	0.8	0.0	76.0	82.3	69.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M13\_04A (M051031A): Number / Applying Type: CR 1 Point  
Label: Fraction watered on Monday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	32.4	59.5	7.1	1.0	32.4	31.4	33.5
	2015	671	40.3	56.5	3.3	0.0	40.3	41.2	39.4
Korea, Rep. of	2011	618	80.3	19.1	0.5	0.1	80.3	83.4	77.4
	2015	662	81.1	18.1	0.8	0.0	81.1	81.4	81.0
Kuwait	2011	584	13.7	68.8	16.4	1.1	13.7	18.5	8.4
	2015	522	18.7	58.7	21.3	1.3	18.7	23.0	13.9
Lithuania	2011	667	55.2	40.6	3.9	0.3	55.2	63.1	48.1
	2015	638	56.1	39.4	4.4	0.0	56.1	66.4	45.2
Morocco	2011	1109	3.0	73.9	19.8	3.2	3.0	2.8	3.2
	2015	731	16.9	72.7	9.5	0.9	16.9	18.2	15.5
Netherlands	2011	458	40.1	58.6	1.3	0.0	40.1	35.6	45.0
	2015	630	36.0	60.7	3.1	0.2	36.0	37.9	34.0
New Zealand	2011	796	46.9	50.3	2.8	0.0	46.9	47.7	46.0
	2015	905	54.5	42.3	2.5	0.6	54.5	58.7	50.3
Northern Ireland	2011	518	74.5	23.3	2.0	0.1	74.5	76.3	72.6
	2015	439	71.3	26.7	1.9	0.1	71.3	73.3	68.8
Oman	2011	1487	21.5	68.6	8.9	1.0	21.5	25.7	17.2
	2015	1292	26.6	67.0	5.7	0.6	26.6	32.5	21.1
Portugal	2011	579	28.1	64.9	6.8	0.2	28.1	33.8	23.1
	2015	675	70.0	28.1	2.0	0.0	70.0	75.0	65.4
Qatar	2011	595	21.7	70.4	7.1	0.8	21.7	24.6	19.2
	2015	739	35.7	55.6	8.3	0.4	35.7	40.8	30.7
Russian Federation	2011	632	52.6	40.9	6.6	0.0	52.6	57.0	48.4
	2015	693	53.0	43.7	3.1	0.3	53.0	54.9	51.1
Saudi Arabia	2011	663	28.1	64.8	6.8	0.3	28.1	31.7	24.1
	2015	602	22.3	63.6	12.2	1.9	22.3	28.1	15.9
Serbia	2011	630	48.7	37.8	13.0	0.5	48.7	52.2	45.4
	2015	575	47.8	38.7	12.5	1.0	47.8	52.0	43.8
Singapore	2011	906	80.4	19.3	0.2	0.0	80.4	81.4	79.4
	2015	925	83.1	16.3	0.5	0.0	83.1	85.3	81.2
Slovak Republic	2011	813	37.8	52.9	9.3	0.0	37.8	35.8	40.0
	2015	836	27.2	57.9	14.8	0.1	27.2	25.9	28.5
Slovenia	2011	650	42.5	49.5	7.8	0.1	42.5	45.3	40.3
	2015	625	53.0	40.6	5.8	0.6	53.0	54.8	51.1
Spain	2011	580	38.6	50.3	10.9	0.2	38.6	38.8	38.4
	2015	1102	50.4	43.8	5.2	0.6	50.4	47.4	53.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_04A (M051031A): Number / Applying      Type: CR    1 Point  
Label: Fraction watered on Monday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	30.0	62.0	7.5	0.6	30.0	30.1	29.9
	2015	593	43.9	49.5	6.2	0.3	43.9	43.4	44.4
Turkey	2011	1077	38.3	55.6	6.0	0.1	38.3	41.7	35.5
	2015	909	41.2	55.3	3.1	0.4	41.2	44.4	37.9
United Arab Emirates	2011	2081	34.8	58.7	6.0	0.5	34.8	37.4	32.2
	2015	3029	37.1	56.0	6.6	0.3	37.1	40.4	33.9
United States	2011	1811	65.9	33.3	0.6	0.2	65.9	67.4	64.4
	2015	1434	65.8	31.7	1.9	0.6	65.8	68.0	63.9
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International Avg (n=40)	2011	30366	45.2	47.6	6.8	0.4	45.2	47.6	42.9
	2015	30671	49.0	44.7	5.8	0.5	49.0	51.5	46.4
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Ontario, Canada	2011	638	52.9	44.1	2.7	0.2	52.9	54.3	51.8
	2015	641	52.4	44.4	2.5	0.7	52.4	53.8	51.0
Quebec, Canada	2011	601	59.8	35.9	3.7	0.6	59.8	60.9	58.6
	2015	401	62.5	34.5	2.4	0.6	62.5	60.8	64.0
Norway (4)	2011	447	45.2	49.8	4.5	0.5	45.2	50.5	39.6
	2015	608	36.9	56.5	5.8	0.8	36.9	34.1	39.3
Abu Dhabi, UAE	2011	583	28.5	66.5	4.7	0.4	28.5	29.8	27.2
	2015	721	27.7	64.7	7.2	0.4	27.7	27.3	28.0
Dubai, UAE	2011	881	46.1	47.7	5.8	0.3	46.1	47.3	45.1
	2015	1063	51.3	43.9	4.7	0.0	51.3	54.2	48.6
Florida, US	2011	366	62.2	36.6	1.2	0.0	62.2	61.7	62.7
	2015	299	66.7	30.8	2.5	0.0	66.7	69.9	64.2
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_04B (M051031B): Number / Applying      Type: CR    1 Point  
Label: Fraction watered on Tuesday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	50.9	45.1	4.1	0.0	50.9	57.3	44.8
	2015	867	56.6	39.8	2.5	1.0	56.6	56.8	56.5
Bahrain	2011	588	27.9	66.3	5.3	0.5	27.9	29.3	26.5
	2015	590	27.3	67.7	4.0	0.9	27.3	32.8	21.7
Belgium (Flemish)	2011	692	48.2	50.3	1.2	0.3	48.2	51.1	45.2
	2015	773	47.1	50.0	2.9	0.0	47.1	48.6	45.7
Chile	2011	802	32.7	61.0	5.2	1.1	32.7	31.7	33.9
	2015	679	41.4	48.6	6.4	3.6	41.4	40.6	42.2
Chinese Taipei	2011	605	76.4	21.2	2.4	0.0	76.4	79.8	73.4
	2015	611	75.1	23.6	1.1	0.3	75.1	76.6	73.4
Croatia	2011	664	7.7	64.3	27.5	0.4	7.7	7.6	7.9
	2015	575	7.0	73.8	18.6	0.6	7.0	5.4	8.5
Czech Republic	2011	660	31.4	42.8	24.2	1.7	31.4	29.8	32.9
	2015	741	48.4	40.4	11.1	0.2	48.4	51.6	45.7
Denmark	2011	573	59.8	34.1	5.0	1.1	59.8	62.9	56.5
	2015	525	64.4	30.4	3.4	1.8	64.4	65.3	63.5
England	2011	469	59.5	37.0	3.3	0.2	59.5	57.7	61.1
	2015	563	63.0	35.1	1.5	0.4	63.0	66.2	59.7
Finland	2011	660	75.3	21.8	2.9	0.0	75.3	77.3	73.3
	2015	718	66.4	29.1	4.1	0.5	66.4	72.2	60.8
Georgia	2011	673	15.9	72.4	9.6	2.1	15.9	16.5	15.3
	2015	568	13.7	74.8	9.9	1.7	13.7	14.0	13.4
Germany	2011	568	14.3	65.7	19.4	0.7	14.3	14.0	14.6
	2015	571	16.0	65.8	17.4	0.8	16.0	13.0	18.4
Hong Kong SAR	2011	566	59.7	38.1	2.2	0.0	59.7	58.7	60.5
	2015	531	85.6	12.7	1.6	0.0	85.6	86.8	84.7
Hungary	2011	740	43.7	53.4	2.3	0.6	43.7	49.9	37.8
	2015	719	41.1	55.7	2.0	1.1	41.1	41.2	41.0
Iran, Islamic Rep. of	2011	815	30.2	57.9	9.9	2.0	30.2	33.6	26.9
	2015	548	36.8	51.6	9.6	2.0	36.8	43.7	30.2
Ireland	2011	652	64.5	33.0	2.3	0.2	64.5	69.0	59.7
	2015	616	70.7	27.9	0.4	0.9	70.7	72.1	69.4
Italy	2011	603	48.0	46.3	5.1	0.7	48.0	48.4	47.6
	2015	621	48.5	44.4	6.6	0.5	48.5	47.9	49.2
Japan	2011	628	74.2	24.0	0.8	1.0	74.2	79.3	69.3
	2015	628	77.4	21.8	0.9	0.0	77.4	83.2	71.1

V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_04B (M051031B): Number / Applying Type: CR 1 Point  
Label: Fraction watered on Tuesday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	26.0	65.3	7.0	1.8	26.0	22.8	29.2
	2015	671	38.0	58.8	2.8	0.4	38.0	38.6	37.5
Korea, Rep. of	2011	618	77.2	22.2	0.5	0.1	77.2	79.5	75.0
	2015	662	82.3	16.9	0.8	0.0	82.3	83.2	81.6
Kuwait	2011	584	7.7	72.5	17.4	2.4	7.7	9.9	5.4
	2015	522	13.2	60.6	23.0	3.2	13.2	15.3	11.3
Lithuania	2011	667	49.0	45.3	5.3	0.3	49.0	55.0	43.6
	2015	638	52.2	43.1	4.5	0.1	52.2	62.6	41.3
Morocco	2011	1109	1.8	73.3	21.1	3.9	1.8	2.4	1.1
	2015	731	12.0	76.5	10.1	1.4	12.0	15.3	8.5
Netherlands	2011	458	35.3	63.4	1.4	0.0	35.3	33.0	37.6
	2015	630	28.4	67.8	2.7	1.1	28.4	26.3	30.5
New Zealand	2011	796	45.1	51.3	2.9	0.7	45.1	45.8	44.5
	2015	905	54.6	41.8	2.6	1.0	54.6	57.6	51.6
Northern Ireland	2011	518	74.6	23.2	1.8	0.5	74.6	78.5	70.2
	2015	439	69.5	28.0	2.3	0.1	69.5	70.8	67.9
Oman	2011	1487	15.1	74.9	8.3	1.7	15.1	16.9	13.2
	2015	1290	22.0	69.7	7.5	0.8	22.0	28.0	16.3
Portugal	2011	579	23.1	69.6	6.5	0.8	23.1	28.3	18.5
	2015	675	65.5	32.2	2.1	0.1	65.5	68.8	62.5
Qatar	2011	595	21.0	70.2	7.6	1.2	21.0	24.1	18.3
	2015	739	29.9	59.9	8.6	1.6	29.9	33.0	26.9
Russian Federation	2011	632	49.6	43.1	7.3	0.0	49.6	52.4	47.0
	2015	693	51.0	45.4	3.0	0.6	51.0	53.1	48.9
Saudi Arabia	2011	663	18.9	72.8	7.5	0.8	18.9	18.7	19.1
	2015	602	15.7	69.0	12.9	2.4	15.7	16.9	14.3
Serbia	2011	630	42.1	43.4	13.4	1.2	42.1	43.0	41.1
	2015	575	42.1	42.5	13.8	1.6	42.1	45.7	38.6
Singapore	2011	906	83.6	16.2	0.2	0.0	83.6	86.2	80.8
	2015	925	84.0	15.5	0.5	0.0	84.0	85.9	82.2
Slovak Republic	2011	813	34.5	55.9	9.3	0.3	34.5	34.0	35.1
	2015	836	23.2	59.7	16.8	0.2	23.2	21.2	25.3
Slovenia	2011	650	39.2	51.8	8.5	0.5	39.2	38.7	39.7
	2015	625	50.1	41.7	7.1	1.1	50.1	51.7	48.4
Spain	2011	580	36.1	52.0	10.9	1.0	36.1	36.3	35.9
	2015	1102	43.5	49.0	6.8	0.7	43.5	41.3	45.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_04B (M051031B): Number / Applying      Type: CR    1 Point  
Label: Fraction watered on Tuesday

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
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Sweden	2011	653	27.4	63.2	7.9	1.5	27.4	28.1	26.9
	2015	593	38.6	54.4	5.8	1.2	38.6	40.5	36.7
Turkey	2011	1077	33.6	60.0	6.3	0.1	33.6	34.7	32.8
	2015	909	37.7	58.2	3.7	0.4	37.7	39.1	36.2
United Arab Emirates	2011	2081	29.3	63.2	6.9	0.6	29.3	30.6	28.0
	2015	3028	33.6	58.0	8.0	0.4	33.6	36.3	31.1
United States	2011	1811	63.5	35.7	0.4	0.3	63.5	63.0	64.0
	2015	1434	63.2	33.9	1.7	1.1	63.2	65.3	61.4
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International Avg (n=40)	2011	30366	41.3	50.6	7.3	0.8	41.3	42.9	39.9
	2015	30668	45.9	46.9	6.3	0.9	45.9	47.9	44.0
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Ontario, Canada	2011	638	54.9	42.0	2.4	0.7	54.9	55.5	54.4
	2015	641	51.5	44.6	2.4	1.5	51.5	56.1	47.5
Quebec, Canada	2011	601	63.4	32.2	3.8	0.6	63.4	63.0	63.8
	2015	401	68.3	27.3	3.2	1.1	68.3	64.5	72.0
Norway (4)	2011	447	41.6	52.9	4.2	1.2	41.6	44.7	38.4
	2015	608	36.4	57.0	4.3	2.3	36.4	36.3	36.5
Abu Dhabi, UAE	2011	583	23.4	70.8	5.4	0.4	23.4	26.4	20.5
	2015	720	26.8	64.2	8.6	0.4	26.8	27.1	26.6
Dubai, UAE	2011	881	41.8	51.3	6.4	0.6	41.8	42.1	41.4
	2015	1063	46.5	47.8	5.6	0.1	46.5	49.4	43.8
Florida, US	2011	366	59.9	38.8	1.1	0.2	59.9	57.2	62.7
	2015	299	62.8	34.7	1.7	0.8	62.8	69.5	57.3
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V1 = Percent scoring 1 pt or better;    V2 = Percent scoring 2 pts;    Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_05 (M051508): Number / Applying Type: CR 1 Point  
Label: Next 2 numbers in the pattern

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	50.4	45.7	3.8	0.1	50.4	53.7	47.2
	2015	867	53.1	44.1	1.5	1.3	53.1	50.6	55.2
Bahrain	2011	588	23.1	70.9	5.4	0.5	23.1	22.0	24.2
	2015	589	20.0	75.2	3.8	1.0	20.0	18.1	21.9
Belgium (Flemish)	2011	692	53.5	44.1	2.0	0.3	53.5	57.1	49.8
	2015	773	51.8	44.6	3.7	0.0	51.8	51.3	52.2
Chile	2011	802	26.1	65.7	6.8	1.4	26.1	21.8	30.8
	2015	680	24.5	65.1	6.8	3.6	24.5	26.5	22.7
Chinese Taipei	2011	605	65.9	31.3	2.8	0.0	65.9	65.2	66.5
	2015	611	61.4	36.5	1.8	0.3	61.4	61.1	61.7
Croatia	2011	664	38.7	53.2	7.6	0.5	38.7	37.3	40.3
	2015	575	39.8	53.2	6.4	0.6	39.8	38.9	40.6
Czech Republic	2011	660	44.0	43.5	10.8	1.7	44.0	44.8	43.2
	2015	741	52.7	39.7	7.4	0.2	52.7	52.8	52.6
Denmark	2011	573	56.6	36.7	5.6	1.1	56.6	61.1	51.7
	2015	525	67.7	26.4	3.9	2.0	67.7	66.1	69.3
England	2011	469	66.3	32.0	1.2	0.5	66.3	63.7	68.7
	2015	563	64.8	33.1	1.7	0.4	64.8	62.7	67.0
Finland	2011	660	44.0	49.7	6.3	0.0	44.0	39.1	49.1
	2015	718	43.9	48.9	6.6	0.5	43.9	42.7	45.2
Georgia	2011	664	39.1	47.0	11.8	2.1	39.1	40.3	37.9
	2015	568	40.4	51.9	6.0	1.7	40.4	39.9	40.9
Germany	2011	568	58.7	35.0	5.6	0.7	58.7	58.9	58.6
	2015	571	56.5	34.4	8.4	0.8	56.5	56.3	56.5
Hong Kong SAR	2011	566	67.3	31.2	1.5	0.0	67.3	64.5	69.6
	2015	531	73.5	25.9	0.7	0.0	73.5	68.9	77.0
Hungary	2011	740	49.6	47.0	2.7	0.6	49.6	49.0	50.2
	2015	719	55.9	41.4	1.6	1.1	55.9	55.6	56.1
Iran, Islamic Rep. of	2011	815	21.9	63.9	11.7	2.4	21.9	23.9	20.0
	2015	548	26.8	61.6	9.6	2.1	26.8	28.7	24.9
Ireland	2011	652	59.6	37.8	2.3	0.2	59.6	60.1	59.1
	2015	616	64.8	33.4	0.8	0.9	64.8	63.9	65.8
Italy	2011	603	49.1	45.5	4.6	0.8	49.1	45.5	52.8
	2015	621	44.3	49.2	6.0	0.5	44.3	39.7	48.7
Japan	2011	628	59.1	38.4	1.5	1.0	59.1	62.2	56.1
	2015	628	58.2	39.5	2.3	0.0	58.2	57.6	58.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_05 (M051508): Number / Applying Type: CR 1 Point  
Label: Next 2 numbers in the pattern

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	53.9	39.4	4.9	1.8	53.9	55.5	52.2
	2015	671	52.2	44.1	3.3	0.4	52.2	57.3	47.6
Korea, Rep. of	2011	618	72.6	26.9	0.3	0.1	72.6	69.4	75.6
	2015	662	73.2	25.5	1.3	0.0	73.2	71.6	74.6
Kuwait	2011	584	4.7	82.7	10.0	2.7	4.7	3.6	5.8
	2015	517	10.3	68.0	18.3	3.4	10.3	8.9	11.3
Lithuania	2011	667	53.5	42.2	3.8	0.5	53.5	58.2	49.4
	2015	638	51.8	43.9	4.1	0.1	51.8	54.0	49.6
Morocco	2011	1108	8.9	65.2	21.7	4.2	8.9	9.0	8.7
	2015	730	14.8	73.4	10.4	1.4	14.8	12.3	17.4
Netherlands	2011	458	64.9	32.5	2.6	0.0	64.9	68.8	61.5
	2015	630	64.7	31.2	2.9	1.2	64.7	60.3	69.1
New Zealand	2011	796	46.3	50.5	2.5	0.7	46.3	44.7	47.8
	2015	905	54.0	42.2	2.7	1.0	54.0	55.7	52.3
Northern Ireland	2011	518	68.8	29.3	1.3	0.6	68.8	68.7	68.9
	2015	439	67.9	30.5	1.5	0.1	67.9	73.4	62.1
Oman	2011	1487	14.5	79.8	3.9	1.8	14.5	14.6	14.4
	2015	1292	16.5	77.2	5.4	0.9	16.5	18.5	14.6
Portugal	2011	579	49.9	46.1	3.2	0.8	49.9	54.8	45.6
	2015	675	59.3	38.6	2.0	0.1	59.3	58.0	60.5
Qatar	2011	595	26.4	68.3	4.1	1.2	26.4	24.9	27.7
	2015	739	33.3	60.5	4.4	1.8	33.3	34.0	32.6
Russian Federation	2011	632	63.4	33.1	3.6	0.0	63.4	63.9	62.8
	2015	693	64.6	32.7	2.0	0.7	64.6	64.9	64.2
Saudi Arabia	2011	663	16.8	75.2	7.0	0.9	16.8	13.6	20.3
	2015	602	12.8	54.1	30.8	2.4	12.8	15.1	10.2
Serbia	2011	630	51.4	40.4	6.8	1.3	51.4	44.7	57.8
	2015	575	47.5	42.5	8.4	1.6	47.5	49.0	46.2
Singapore	2011	906	72.8	27.0	0.2	0.0	72.8	70.1	75.6
	2015	925	68.7	30.4	0.9	0.0	68.7	69.5	68.0
Slovak Republic	2011	813	48.5	44.5	6.7	0.3	48.5	47.8	49.3
	2015	836	41.6	52.0	6.3	0.2	41.6	40.8	42.3
Slovenia	2011	650	34.2	52.8	12.5	0.5	34.2	27.9	39.4
	2015	625	36.6	55.1	7.2	1.1	36.6	30.5	42.7
Spain	2011	580	32.1	54.7	12.2	1.0	32.1	27.9	35.7
	2015	1102	40.9	52.5	5.9	0.8	40.9	34.9	46.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_05 (M051508): Number / Applying Type: CR 1 Point  
Label: Next 2 numbers in the pattern

COUNTRY	Year	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	52.2	42.2	4.2	1.5	52.2	48.8	55.0
	2015	593	52.8	41.8	4.2	1.2	52.8	50.8	55.0
Turkey	2011	1075	35.5	59.3	5.1	0.1	35.5	33.2	37.4
	2015	909	38.0	57.9	3.6	0.4	38.0	37.3	38.8
United Arab Emirates	2011	2081	28.3	66.3	4.9	0.6	28.3	26.2	30.4
	2015	3029	34.7	59.9	5.0	0.4	34.7	32.2	37.1
United States	2011	1811	58.8	39.4	1.5	0.4	58.8	58.1	59.5
	2015	1434	57.4	39.6	1.7	1.3	57.4	54.1	60.3
-----									
International Avg (n=40)	2011	30354	45.8	47.9	5.4	0.9	45.8	45.1	46.4
	2015	30665	47.3	46.4	5.3	0.9	47.3	46.6	48.0
-----									
Ontario, Canada	2011	638	46.6	50.5	2.1	0.7	46.6	45.5	47.6
	2015	641	47.9	49.0	1.6	1.5	47.9	47.6	48.4
Quebec, Canada	2011	601	51.2	43.6	4.6	0.6	51.2	50.6	51.8
	2015	401	48.0	46.2	4.1	1.6	48.0	40.2	55.5
Norway (4)	2011	447	36.2	56.7	5.9	1.2	36.2	40.2	32.1
	2015	608	43.6	48.8	5.4	2.3	43.6	46.8	40.8
Abu Dhabi, UAE	2011	583	23.9	71.0	4.7	0.4	23.9	21.9	25.8
	2015	721	25.7	68.8	5.0	0.6	25.7	21.4	29.7
Dubai, UAE	2011	881	39.2	55.0	5.2	0.6	39.2	37.6	40.6
	2015	1063	53.0	43.6	3.4	0.1	53.0	49.0	56.7
Florida, US	2011	366	57.9	40.6	1.2	0.2	57.9	53.8	62.1
	2015	299	63.9	34.1	1.2	0.8	63.9	66.7	61.6
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.



M13\_06A (M051216A): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Street parallel to Green Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	41.6	41.6	48.7	4.9	3.5	0.9	0.4	41.6	41.6
	2015	867	40.4	40.4	46.1	5.6	1.9	4.4	1.6	38.6	41.9
Bahrain	2011	588	16.6	16.6	67.3	10.2	3.4	0.9	1.6	14.0	19.1
	2015	589	22.4	22.4	61.7	10.5	2.5	1.9	1.0	20.8	24.0
Belgium (Flemish)	2011	692	80.1	80.1	15.8	1.5	1.1	1.1	0.4	77.1	83.1
	2015	773	77.3	77.3	19.7	1.1	1.0	0.8	0.0	76.4	78.2
Chile	2011	802	43.8	43.8	40.7	6.8	4.6	1.8	2.4	40.6	47.3
	2015	680	31.1	31.1	51.0	10.3	2.7	1.2	3.8	30.4	31.7
Chinese Taipei	2011	605	81.5	81.5	11.0	6.7	0.7	0.2	0.0	81.3	81.6
	2015	611	86.4	86.4	9.8	2.6	0.6	0.4	0.4	86.1	86.6
Croatia	2011	664	70.7	70.7	21.8	3.9	2.8	0.3	0.5	69.4	72.2
	2015	575	63.0	63.0	27.1	5.4	3.0	0.8	0.6	61.3	64.7
Czech Republic	2011	660	75.2	75.2	16.1	3.1	2.0	1.8	1.8	76.7	73.8
	2015	741	79.8	79.8	15.2	3.3	0.3	1.0	0.3	79.4	80.1
Denmark	2011	573	59.3	59.3	28.4	6.6	1.2	2.9	1.6	63.2	55.2
	2015	525	58.5	58.5	32.2	4.1	1.4	1.3	2.4	56.7	60.4
England	2011	469	45.4	45.4	38.7	8.1	5.5	1.6	0.8	38.3	51.8
	2015	563	45.9	45.9	39.1	8.5	5.1	0.9	0.4	46.4	45.4
Finland	2011	660	82.6	82.6	7.4	5.5	2.7	1.8	0.1	83.7	81.4
	2015	718	74.8	74.8	13.2	6.7	2.3	2.3	0.7	71.7	77.8
Georgia	2011	671	22.6	22.6	54.2	7.8	8.5	4.2	2.7	23.5	21.7
	2015	568	23.3	23.3	54.0	13.1	6.3	1.3	2.0	25.5	21.2
Germany	2011	568	50.0	50.0	40.4	2.7	4.4	1.9	0.7	48.6	51.3
	2015	571	50.6	50.6	39.6	2.7	3.8	2.4	0.9	49.6	51.3
Hong Kong SAR	2011	566	82.0	82.0	13.3	3.2	1.0	0.6	0.0	81.5	82.3
	2015	531	90.9	90.9	6.9	1.8	0.4	0.0	0.0	87.9	93.2
Hungary	2011	740	57.1	57.1	29.8	6.2	4.0	2.0	0.8	55.3	58.7
	2015	719	62.8	62.8	24.3	7.5	2.9	1.4	1.1	62.2	63.3
Iran, Islamic Rep. of	2011	815	54.3	54.3	22.6	11.5	4.9	4.1	2.7	53.5	55.0
	2015	548	39.5	39.5	30.1	11.0	10.6	6.5	2.3	40.1	39.0
Ireland	2011	652	59.0	59.0	31.1	5.9	2.6	1.0	0.4	62.2	55.7
	2015	616	63.9	63.9	26.8	5.2	1.9	0.9	1.3	61.9	66.0
Italy	2011	603	54.7	54.7	34.4	5.6	2.4	2.0	0.9	53.0	56.4
	2015	621	52.1	52.1	34.1	8.6	2.7	1.9	0.5	52.2	52.2
Japan	2011	628	87.1	87.1	5.5	4.0	1.6	0.6	1.2	88.3	85.9
	2015	628	91.0	91.0	3.8	3.7	0.6	0.9	0.0	93.7	88.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_06A (M051216A): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Street parallel to Green Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	49.2	49.2	33.8	7.8	5.2	1.8	2.2	47.0	51.6
	2015	671	62.0	62.0	27.7	5.2	4.1	0.5	0.4	59.3	64.4
Korea, Rep. of	2011	618	90.7	90.7	5.4	3.1	0.5	0.0	0.3	89.6	91.8
	2015	662	91.4	91.4	7.0	0.6	0.9	0.0	0.0	92.4	90.6
Kuwait	2011	576	19.5	19.5	55.3	8.5	6.6	7.4	2.7	18.3	20.9
	2015	522	21.5	21.5	52.6	11.8	4.2	6.5	3.5	23.8	19.6
Lithuania	2011	667	28.8	28.8	55.0	12.5	2.5	0.6	0.7	27.5	29.9
	2015	638	21.5	21.5	62.4	12.7	2.4	0.8	0.1	18.1	25.1
Morocco	2011	954	26.6	26.6	46.6	17.4	8.8	0.1	0.6	25.7	27.4
	2015	703	22.7	22.7	54.8	13.5	6.5	2.5	0.0	20.4	25.4
Netherlands	2011	458	9.5	9.5	75.8	11.1	1.9	1.7	0.0	10.1	8.8
	2015	630	16.1	16.1	61.2	16.3	2.7	1.3	2.4	12.5	19.9
New Zealand	2011	796	23.5	23.5	63.8	7.1	3.3	1.5	0.8	23.0	23.9
	2015	905	30.6	30.6	55.7	7.7	3.7	1.2	1.1	30.1	31.1
Northern Ireland	2011	518	55.0	55.0	31.9	8.7	2.9	0.9	0.6	57.6	52.2
	2015	435	60.6	60.6	27.3	7.6	4.5	0.0	0.0	61.2	60.4
Oman	2011	1486	26.3	26.3	49.2	12.5	6.6	3.0	2.5	25.7	26.8
	2015	1292	29.1	29.1	53.3	10.4	4.4	1.9	0.9	29.9	28.3
Portugal	2011	579	71.2	71.2	20.4	4.1	2.2	1.2	0.9	73.8	69.0
	2015	675	70.1	70.1	19.9	4.7	3.7	1.5	0.1	73.8	66.8
Qatar	2011	595	30.0	30.0	54.0	8.4	4.6	1.8	1.2	29.9	30.1
	2015	739	27.6	27.6	56.7	9.7	3.0	0.7	2.4	31.0	24.3
Russian Federation	2011	632	46.7	46.7	45.2	4.3	3.1	0.6	0.2	47.5	45.9
	2015	693	39.3	39.3	50.9	3.9	4.1	1.0	0.8	42.4	36.2
Saudi Arabia	2011	662	27.4	27.4	50.9	12.1	7.2	0.9	1.5	22.2	33.1
	2015	597	26.7	26.7	45.3	13.9	8.7	2.9	2.5	28.0	25.3
Serbia	2011	630	55.7	55.7	32.5	3.8	4.1	1.8	2.1	56.7	54.8
	2015	575	59.2	59.2	27.1	5.7	3.4	2.9	1.7	61.1	57.5
Singapore	2011	906	91.3	91.3	6.0	2.1	0.7	0.0	0.0	91.5	90.9
	2015	925	91.4	91.4	5.9	2.0	0.6	0.0	0.2	92.4	90.5
Slovak Republic	2011	813	51.7	51.7	32.5	12.3	2.1	1.1	0.3	48.1	55.5
	2015	836	46.6	46.6	37.6	11.6	2.6	1.4	0.2	42.3	50.9
Slovenia	2011	649	65.8	65.8	24.1	7.0	1.5	0.7	0.8	61.5	69.3
	2015	625	68.2	68.2	21.2	7.7	0.3	1.5	1.1	68.2	68.1
Spain	2011	580	47.3	47.3	43.2	5.1	1.3	1.5	1.5	47.0	47.5
	2015	1102	52.9	52.9	36.9	6.0	1.9	1.3	1.0	50.9	54.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_06A (M051216A): Geometric Shapes and Measures / Applying Type: MC Key: A  
Label: Street parallel to Green Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	18.6	18.6	68.8	5.9	1.8	3.2	1.7	21.7	16.0
	2015	593	27.3	27.3	57.5	6.4	2.3	4.9	1.5	23.4	31.7
Turkey	2011	1075	33.9	33.9	48.5	7.0	8.9	1.5	0.2	35.1	32.9
	2015	909	35.4	35.4	49.7	5.9	7.9	0.7	0.4	34.8	36.1
United Arab Emirates	2011	2081	24.1	24.1	61.2	7.3	4.9	1.5	1.0	25.0	23.3
	2015	3029	35.8	35.8	50.9	6.0	3.6	2.9	0.7	34.2	37.3
United States	2011	1811	65.7	65.7	22.9	7.0	1.7	1.9	0.8	65.9	65.5
	2015	1434	68.2	68.2	21.1	6.3	1.7	1.1	1.6	64.9	71.2
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International Avg (n=40)	2011	30196	50.5	50.5	36.4	7.0	3.5	1.6	1.0	50.1	51.0
	2015	30634	51.4	51.4	35.4	7.2	3.2	1.7	1.0	50.9	52.0
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Ontario, Canada	2011	638	38.7	38.7	41.8	13.3	3.6	1.8	0.8	35.1	41.8
	2015	638	49.6	49.6	33.8	10.5	3.3	1.2	1.7	52.1	47.3
Quebec, Canada	2011	601	64.4	64.4	25.6	5.2	1.6	1.8	1.3	65.6	63.2
	2015	401	71.3	71.3	21.5	4.6	0.8	0.2	1.6	78.0	64.9
Norway (4)	2011	447	31.7	31.7	51.3	9.3	3.1	3.1	1.4	31.3	32.2
	2015	608	27.6	27.6	50.2	12.8	2.8	3.5	3.2	25.6	29.3
Abu Dhabi, UAE	2011	583	21.1	21.1	63.9	6.4	5.5	1.9	1.1	19.8	22.4
	2015	721	32.0	32.0	51.6	7.8	4.5	3.3	0.8	30.0	34.0
Dubai, UAE	2011	881	30.9	30.9	57.7	6.0	3.7	0.9	0.9	37.3	25.3
	2015	1063	45.1	45.1	45.2	4.8	3.2	1.5	0.2	44.1	45.9
Florida, US	2011	366	44.3	44.3	44.8	7.5	1.5	1.8	0.2	40.8	47.7
	2015	299	74.1	74.1	17.7	5.3	1.3	0.8	0.8	77.9	70.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_06B (M051216B): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Perpendicular to Apple Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	78.2	6.2	78.2	4.9	9.3	0.8	0.6	78.4	78.1
	2015	867	70.2	5.0	70.2	6.6	13.4	3.3	1.6	68.6	71.6
Bahrain	2011	588	79.6	6.8	79.6	3.4	7.2	1.3	1.6	80.5	78.8
	2015	589	72.8	7.4	72.8	6.4	8.6	3.4	1.4	76.2	69.3
Belgium (Flemish)	2011	692	92.7	3.5	92.7	2.3	0.6	0.6	0.4	93.4	91.9
	2015	773	91.7	3.2	91.7	3.0	1.6	0.5	0.0	94.0	89.4
Chile	2011	802	60.6	10.9	60.6	9.2	13.7	3.0	2.6	60.0	61.3
	2015	680	61.3	11.3	61.3	8.8	12.6	1.7	4.3	65.1	57.8
Chinese Taipei	2011	605	90.7	4.6	90.7	1.7	2.8	0.3	0.0	89.1	92.1
	2015	611	95.3	1.6	95.3	0.8	1.6	0.4	0.4	94.0	96.7
Croatia	2011	664	84.4	5.4	84.4	3.9	4.7	1.0	0.5	85.4	83.3
	2015	575	85.3	4.6	85.3	3.7	4.8	1.0	0.6	84.3	86.2
Czech Republic	2011	660	82.0	4.3	82.0	5.5	4.1	2.1	2.0	81.7	82.3
	2015	741	81.9	3.9	81.9	6.2	6.4	1.4	0.3	84.9	79.4
Denmark	2011	573	75.7	6.9	75.7	5.5	4.7	5.0	2.1	78.4	72.9
	2015	525	84.0	4.4	84.0	3.1	4.2	1.5	2.8	86.8	81.1
England	2011	469	72.5	6.0	72.5	8.2	11.2	0.9	1.1	72.1	72.9
	2015	563	69.9	9.5	69.9	5.7	12.4	2.2	0.4	69.3	70.4
Finland	2011	660	89.7	3.0	89.7	3.6	2.2	1.3	0.2	90.7	88.7
	2015	718	86.7	4.3	86.7	3.7	3.2	1.4	0.7	87.0	86.3
Georgia	2011	671	64.5	8.6	64.5	7.9	9.8	5.9	3.3	67.0	61.9
	2015	568	68.2	13.5	68.2	4.3	8.6	3.3	2.0	71.1	65.6
Germany	2011	568	77.8	3.5	77.8	8.5	7.6	1.8	0.8	75.4	80.0
	2015	571	77.9	2.2	77.9	5.8	9.6	3.6	0.9	78.2	77.5
Hong Kong SAR	2011	566	91.4	5.1	91.4	1.1	1.3	1.1	0.0	92.4	90.5
	2015	531	94.3	4.2	94.3	0.8	0.7	0.0	0.0	93.5	94.9
Hungary	2011	740	75.3	9.1	75.3	5.2	7.9	1.5	1.1	75.1	75.4
	2015	719	73.7	8.0	73.7	7.1	8.0	2.1	1.1	72.5	74.8
Iran, Islamic Rep. of	2011	815	74.6	8.3	74.6	5.7	4.0	3.8	3.7	72.4	76.8
	2015	548	63.6	9.8	63.6	11.0	7.0	5.6	3.0	63.9	63.3
Ireland	2011	652	75.6	8.5	75.6	4.9	8.0	2.3	0.6	75.6	75.6
	2015	616	77.5	7.3	77.5	4.8	8.7	0.4	1.3	76.7	78.4
Italy	2011	603	71.1	8.3	71.1	7.8	9.4	2.5	0.9	69.8	72.5
	2015	621	67.3	9.4	67.3	7.7	11.7	3.3	0.5	67.8	66.8
Japan	2011	628	91.6	3.3	91.6	1.6	1.8	0.3	1.4	93.5	89.7
	2015	628	91.5	2.5	91.5	2.4	2.7	0.7	0.1	93.7	89.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_06B (M051216B): Geometric Shapes and Measures / Knowing Type: MC Key: B  
Label: Perpendicular to Apple Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	64.6	13.9	64.6	10.3	6.5	2.3	2.4	62.8	66.3
	2015	671	74.7	9.5	74.7	8.5	6.2	0.5	0.5	78.7	71.0
Korea, Rep. of	2011	618	94.6	2.9	94.6	0.7	1.4	0.1	0.3	93.6	95.6
	2015	662	97.3	1.3	97.3	0.8	0.4	0.2	0.0	97.6	97.0
Kuwait	2011	576	62.8	13.8	62.8	8.9	6.7	4.5	3.3	70.5	54.4
	2015	522	59.4	15.0	59.4	9.3	6.9	5.7	3.7	66.4	53.2
Lithuania	2011	667	79.4	7.0	79.4	4.6	7.5	0.8	0.7	82.1	76.9
	2015	638	79.0	5.7	79.0	5.8	6.9	2.3	0.2	81.7	76.2
Morocco	2011	965	51.1	21.4	51.1	16.2	10.5	0.0	0.7	52.7	49.7
	2015	701	60.2	12.6	60.2	16.2	9.1	1.9	0.0	62.3	57.9
Netherlands	2011	458	91.8	1.6	91.8	2.5	2.4	1.5	0.2	91.3	92.2
	2015	630	87.8	3.2	87.8	3.5	2.4	0.3	2.7	89.4	86.2
New Zealand	2011	796	72.3	8.9	72.3	5.7	10.0	2.1	0.9	72.5	72.2
	2015	905	70.6	9.9	70.6	5.9	11.1	1.3	1.4	71.9	69.2
Northern Ireland	2011	518	74.9	9.1	74.9	5.9	8.8	0.8	0.6	75.6	74.0
	2015	436	76.5	6.9	76.5	9.1	7.5	0.0	0.0	77.4	75.3
Oman	2011	1486	61.1	13.2	61.1	8.6	10.8	3.5	2.8	64.7	57.3
	2015	1274	67.2	12.0	67.2	7.0	10.2	2.6	1.1	70.9	63.7
Portugal	2011	579	72.9	6.2	72.9	8.1	9.7	2.3	0.9	71.4	74.3
	2015	675	76.5	5.2	76.5	7.9	6.6	3.5	0.2	80.3	73.0
Qatar	2011	595	67.7	13.2	67.7	8.0	8.1	1.2	1.8	69.3	66.3
	2015	739	71.4	8.6	71.4	8.1	8.0	1.2	2.8	75.0	67.9
Russian Federation	2011	632	80.9	6.4	80.9	4.6	6.6	1.3	0.2	83.3	78.7
	2015	693	82.7	6.7	82.7	2.6	6.1	1.1	0.8	81.9	83.6
Saudi Arabia	2011	663	74.3	8.1	74.3	8.5	6.3	1.3	1.6	81.0	67.0
	2015	600	66.5	9.4	66.5	8.4	9.3	3.9	2.5	72.1	60.3
Serbia	2011	630	76.7	10.7	76.7	4.7	2.5	3.0	2.5	76.0	77.3
	2015	575	76.3	8.9	76.3	5.8	3.4	3.5	2.1	79.0	73.7
Singapore	2011	906	92.3	3.8	92.3	1.5	2.4	0.0	0.0	93.1	91.4
	2015	925	94.2	2.1	94.2	1.5	2.0	0.0	0.2	94.9	93.6
Slovak Republic	2011	813	80.1	4.6	80.1	5.4	7.9	1.7	0.3	81.9	78.2
	2015	836	64.5	8.0	64.5	10.3	14.5	2.3	0.3	62.4	66.6
Slovenia	2011	645	77.9	7.6	77.9	5.3	6.6	1.6	0.9	75.7	79.8
	2015	625	79.8	4.9	79.8	5.5	7.3	1.3	1.1	80.7	78.9
Spain	2011	580	72.0	5.0	72.0	9.2	9.5	2.5	1.7	69.1	74.5
	2015	1102	71.5	6.7	71.5	8.2	10.7	1.8	1.1	68.9	73.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_06B (M051216B): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Perpendicular to Apple Street

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	69.5	7.6	69.5	7.6	11.2	2.3	1.8	71.5	67.9
	2015	593	71.1	4.0	71.1	6.2	12.2	4.5	1.9	68.3	74.1
Turkey	2011	1075	86.3	6.6	86.3	3.6	2.5	0.7	0.4	87.2	85.6
	2015	909	86.7	4.8	86.7	2.7	5.0	0.4	0.4	88.0	85.3
United Arab Emirates	2011	2081	71.8	12.2	71.8	5.0	8.5	1.2	1.4	75.4	68.1
	2015	3029	69.6	12.8	69.6	6.5	7.6	2.7	0.9	69.4	69.8
United States	2011	1811	75.4	7.5	75.4	5.7	8.1	2.2	1.1	77.3	73.3
	2015	1434	78.4	6.3	78.4	6.3	5.9	1.3	1.8	74.2	82.1
-----											
International Avg (n=40)	2011	30204	77.0	7.6	77.0	5.8	6.6	1.8	1.2	77.7	76.1
	2015	30618	76.9	6.9	76.9	5.9	7.1	2.0	1.2	78.0	75.8
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Ontario, Canada	2011	638	68.8	11.9	68.8	7.6	7.6	2.7	1.2	69.0	68.7
	2015	641	67.3	10.5	67.3	8.7	10.6	0.8	2.0	65.2	69.1
Quebec, Canada	2011	601	79.7	5.6	79.7	5.3	5.6	2.5	1.3	78.8	80.6
	2015	400	80.8	7.0	80.8	4.9	5.3	0.4	1.6	79.1	82.4
Norway (4)	2011	447	70.2	9.4	70.2	2.9	11.3	4.6	1.7	71.0	69.3
	2015	608	70.9	10.3	70.9	3.1	8.0	4.4	3.3	72.6	69.4
Abu Dhabi, UAE	2011	583	70.7	14.8	70.7	4.4	7.5	0.9	1.7	75.1	66.4
	2015	721	64.0	16.0	64.0	7.0	9.0	2.8	1.2	62.8	65.1
Dubai, UAE	2011	881	73.6	11.1	73.6	4.8	7.9	1.7	0.9	77.9	69.8
	2015	1063	75.4	7.5	75.4	6.9	8.4	1.6	0.2	75.9	74.9
Florida, US	2011	366	77.6	8.0	77.6	4.2	7.7	1.4	1.0	74.9	80.5
	2015	299	79.1	5.8	79.1	6.5	5.6	1.9	1.2	84.5	74.6
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_07 (M051221): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Number of triangles needed

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	84.9	7.8	84.9	4.6	1.8	0.3	0.6	88.2	81.8
	2015	867	84.0	5.7	84.0	5.8	0.7	2.2	1.6	84.1	84.0
Bahrain	2011	588	49.6	27.5	49.6	16.2	4.1	1.0	1.6	49.3	49.9
	2015	590	58.8	26.5	58.8	10.7	1.9	0.6	1.4	62.3	55.2
Belgium (Flemish)	2011	692	76.0	14.6	76.0	6.1	2.4	0.5	0.4	75.1	77.0
	2015	773	78.9	13.3	78.9	6.1	1.4	0.1	0.1	80.6	77.4
Chile	2011	802	74.9	10.5	74.9	7.7	2.8	1.4	2.7	75.2	74.5
	2015	678	75.5	11.2	75.5	5.8	2.5	0.4	4.7	78.1	73.1
Chinese Taipei	2011	605	77.6	12.6	77.6	7.4	2.1	0.3	0.0	79.6	75.8
	2015	611	79.2	11.3	79.2	7.4	1.5	0.3	0.4	80.4	77.9
Croatia	2011	664	69.4	14.9	69.4	9.3	5.3	0.4	0.8	70.9	67.7
	2015	575	68.8	17.8	68.8	10.6	1.7	0.5	0.6	67.9	69.6
Czech Republic	2011	660	76.4	10.1	76.4	5.7	3.9	1.7	2.2	78.9	74.0
	2015	741	79.3	11.3	79.3	6.2	1.8	1.0	0.4	79.8	78.9
Denmark	2011	573	76.1	12.5	76.1	5.0	2.3	2.0	2.1	77.2	74.8
	2015	525	83.0	6.9	83.0	5.7	0.6	1.0	2.8	82.5	83.5
England	2011	469	83.7	7.2	83.7	6.2	0.9	0.9	1.1	84.7	82.8
	2015	563	84.9	7.5	84.9	4.7	1.6	0.8	0.6	84.0	85.8
Finland	2011	660	80.0	13.1	80.0	5.0	1.1	0.6	0.2	78.3	81.6
	2015	718	73.4	14.0	73.4	8.5	0.5	2.9	0.7	74.1	72.8
Georgia	2011	673	62.5	15.6	62.5	12.5	4.6	1.4	3.4	60.7	64.2
	2015	568	68.5	12.5	68.5	10.5	5.4	0.8	2.3	71.6	65.7
Germany	2011	568	76.9	14.8	76.9	4.2	2.6	0.7	0.8	75.4	78.4
	2015	571	77.4	16.1	77.4	3.8	1.5	0.2	1.1	78.5	76.3
Hong Kong SAR	2011	566	83.0	7.7	83.0	6.9	1.4	0.9	0.0	80.0	85.5
	2015	531	85.7	6.9	85.7	6.9	0.3	0.3	0.0	85.5	85.8
Hungary	2011	740	72.4	15.4	72.4	8.4	2.0	0.8	1.1	72.2	72.6
	2015	719	72.1	16.3	72.1	8.1	1.5	0.8	1.1	73.6	70.8
Iran, Islamic Rep. of	2011	814	41.3	14.2	41.3	18.0	20.7	1.9	4.0	38.4	44.1
	2015	548	47.0	17.2	47.0	18.0	11.4	3.3	3.0	52.4	41.9
Ireland	2011	652	81.9	8.2	81.9	7.8	1.4	0.1	0.6	78.6	85.4
	2015	616	85.7	7.6	85.7	4.6	0.7	0.0	1.4	85.2	86.1
Italy	2011	603	66.5	14.9	66.5	10.9	5.6	1.0	1.2	63.4	69.6
	2015	621	69.3	13.2	69.3	12.8	3.6	0.5	0.5	69.8	69.1
Japan	2011	628	75.8	16.7	75.8	4.8	0.9	0.4	1.4	77.4	74.3
	2015	628	71.3	22.0	71.3	5.5	0.5	0.5	0.1	72.8	69.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_07 (M051221): Geometric Shapes and Measures / Knowing      Type: MC      Key: B  
Label: Number of triangles needed

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	59.8	15.4	59.8	14.1	7.5	0.7	2.6	53.9	65.7
	2015	671	73.6	12.8	73.6	10.1	2.9	0.0	0.5	73.2	73.9
Korea, Rep. of	2011	618	76.2	12.7	76.2	8.8	1.6	0.4	0.3	77.8	74.7
	2015	662	81.1	7.3	81.1	10.5	1.1	0.0	0.0	78.1	83.6
Kuwait	2011	577	35.9	27.6	35.9	22.2	3.6	7.4	3.3	39.3	32.2
	2015	519	47.3	17.7	47.3	24.1	3.9	3.3	3.7	48.1	45.5
Lithuania	2011	667	73.0	15.6	73.0	7.4	2.5	0.9	0.7	76.4	70.0
	2015	638	81.8	13.1	81.8	3.6	1.3	0.0	0.2	87.2	76.2
Morocco	2011	977	46.1	31.9	46.1	15.9	5.4	0.0	0.7	45.2	46.8
	2015	710	51.0	32.8	51.0	11.9	3.9	0.5	0.0	51.4	50.6
Netherlands	2011	458	75.0	15.1	75.0	6.9	1.6	1.3	0.2	74.3	75.3
	2015	630	78.0	11.0	78.0	6.7	0.9	0.7	2.7	76.4	79.7
New Zealand	2011	796	75.1	9.8	75.1	10.8	2.7	0.7	0.9	79.0	71.4
	2015	905	80.0	8.9	80.0	7.7	1.2	0.7	1.6	79.6	80.3
Northern Ireland	2011	518	84.3	7.0	84.3	7.4	0.2	0.6	0.6	87.6	80.6
	2015	438	89.1	6.4	89.1	4.1	0.4	0.0	0.0	89.8	88.8
Oman	2011	1487	49.6	25.5	49.6	15.0	4.3	2.6	3.0	47.1	52.1
	2015	1291	61.1	19.1	61.1	15.2	2.3	1.2	1.2	59.9	62.2
Portugal	2011	579	88.8	6.1	88.8	2.9	1.3	0.1	0.9	89.6	88.2
	2015	675	86.1	6.5	86.1	5.0	0.9	1.1	0.3	87.1	85.2
Qatar	2011	595	53.9	24.2	53.9	15.2	4.0	0.9	1.8	54.7	53.2
	2015	739	57.8	20.6	57.8	14.5	3.1	0.9	3.0	58.0	57.7
Russian Federation	2011	632	78.1	12.1	78.1	7.8	1.7	0.1	0.2	79.9	76.4
	2015	693	83.0	9.3	83.0	5.1	1.4	0.3	0.8	85.5	80.6
Saudi Arabia	2011	662	51.7	29.3	51.7	14.0	2.4	0.9	1.8	52.7	50.5
	2015	600	47.9	30.5	47.9	16.1	2.1	0.7	2.8	49.8	45.8
Serbia	2011	629	74.3	11.7	74.3	7.1	4.2	0.2	2.5	73.9	74.7
	2015	575	67.0	17.3	67.0	10.5	2.1	1.0	2.1	72.0	62.2
Singapore	2011	906	80.8	8.7	80.8	8.8	1.6	0.2	0.0	81.2	80.4
	2015	925	80.8	9.5	80.8	8.3	1.0	0.3	0.2	80.2	81.4
Slovak Republic	2011	813	73.8	16.1	73.8	6.4	2.2	1.2	0.3	72.9	74.7
	2015	836	77.4	13.4	77.4	8.0	0.7	0.2	0.3	73.6	81.2
Slovenia	2011	650	73.5	12.7	73.5	8.0	3.8	1.1	0.9	71.1	75.5
	2015	625	78.2	10.7	78.2	7.6	1.7	0.7	1.1	77.5	78.8
Spain	2011	580	71.6	14.0	71.6	7.5	4.3	0.8	1.7	72.1	71.2
	2015	1102	79.5	9.5	79.5	7.3	2.1	0.5	1.1	78.2	80.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.



M13\_07 (M051221): Geometric Shapes and Measures / Knowing Type: MC Key: B  
Label: Number of triangles needed

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	68.9	17.9	68.9	6.2	3.8	1.4	1.8	66.0	71.4
	2015	593	71.0	15.5	71.0	7.1	2.1	2.4	1.9	71.8	70.0
Turkey	2011	1077	55.8	13.5	55.8	18.1	11.6	0.7	0.4	55.9	55.7
	2015	909	65.0	14.1	65.0	14.9	5.3	0.3	0.4	64.4	65.6
United Arab Emirates	2011	2081	55.6	22.2	55.6	16.3	4.0	0.4	1.4	56.0	55.3
	2015	3029	61.2	19.9	61.2	13.4	2.4	2.1	1.0	59.4	62.8
United States	2011	1811	82.6	7.1	82.6	6.5	1.2	1.4	1.3	82.0	83.2
	2015	1434	82.3	7.3	82.3	6.2	1.2	1.3	1.8	79.9	84.3
-----											
International Avg (n=40)	2011	30224	69.8	14.9	69.8	9.5	3.5	1.0	1.3	69.8	69.8
	2015	30642	73.1	13.8	73.1	9.0	2.1	0.9	1.2	73.6	72.5
-----											
Ontario, Canada	2011	638	85.4	4.5	85.4	6.2	1.8	0.6	1.6	80.7	89.5
	2015	641	85.2	7.3	85.2	4.7	0.1	0.6	2.0	82.6	87.4
Quebec, Canada	2011	601	87.1	4.3	87.1	5.4	0.7	1.2	1.3	86.4	87.8
	2015	401	85.1	11.7	85.1	1.2	0.0	0.3	1.6	84.6	85.6
Norway (4)	2011	447	71.1	17.6	71.1	5.6	1.5	1.8	2.4	68.2	74.0
	2015	608	75.1	11.2	75.1	5.1	2.2	3.2	3.3	79.2	71.7
Abu Dhabi, UAE	2011	583	54.6	23.7	54.6	15.7	3.9	0.4	1.7	55.6	53.6
	2015	721	54.7	27.0	54.7	12.8	2.1	2.3	1.2	54.3	55.1
Dubai, UAE	2011	881	61.7	18.5	61.7	13.7	4.7	0.6	0.9	62.9	60.7
	2015	1063	72.6	12.4	72.6	10.8	2.7	1.3	0.2	71.8	73.2
Florida, US	2011	366	85.4	3.8	85.4	7.5	1.2	1.2	1.0	82.6	88.2
	2015	299	79.7	9.4	79.7	8.1	1.6	0.0	1.2	78.2	80.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_08 (M051115): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Shape that folds into a box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	34.2	24.2	21.4	17.9	34.2	1.6	0.6	32.2	36.0
	2015	867	36.5	17.9	23.1	16.4	36.5	3.6	2.4	36.6	36.4
Bahrain	2011	588	19.2	37.1	24.2	15.5	19.2	2.3	1.6	16.4	22.0
	2015	590	19.7	37.6	24.2	15.4	19.7	1.4	1.6	22.4	17.0
Belgium (Flemish)	2011	692	15.9	34.4	19.9	27.6	15.9	1.8	0.4	17.6	14.1
	2015	773	18.2	35.3	20.5	24.6	18.2	1.4	0.1	16.2	20.1
Chile	2011	802	29.5	24.1	19.8	20.8	29.5	3.1	2.7	28.3	30.8
	2015	678	29.2	27.5	20.5	17.0	29.2	1.0	4.8	29.3	29.1
Chinese Taipei	2011	605	28.3	34.4	15.6	18.9	28.3	2.7	0.0	26.5	30.0
	2015	611	35.0	35.2	12.8	14.3	35.0	2.3	0.4	32.8	37.4
Croatia	2011	664	18.5	28.8	26.6	19.7	18.5	5.6	0.8	18.0	19.0
	2015	575	18.5	30.3	22.2	22.8	18.5	5.6	0.6	18.5	18.5
Czech Republic	2011	660	34.3	19.4	20.7	19.7	34.3	3.7	2.2	35.2	33.3
	2015	741	39.3	21.4	18.7	16.4	39.3	3.7	0.5	39.9	38.9
Denmark	2011	573	28.2	25.9	18.8	17.7	28.2	6.9	2.5	31.4	24.7
	2015	525	27.9	30.2	17.3	16.7	27.9	4.8	3.1	27.8	28.1
England	2011	469	40.6	14.1	22.5	19.5	40.6	1.8	1.4	44.8	36.9
	2015	563	40.6	16.8	21.4	18.2	40.6	2.5	0.6	43.2	37.9
Finland	2011	660	33.8	19.0	19.5	23.1	33.8	4.4	0.2	33.6	34.1
	2015	718	28.9	27.7	20.7	18.6	28.9	3.3	0.7	30.2	27.7
Georgia	2011	673	14.6	29.2	23.5	21.1	14.6	8.1	3.5	15.5	13.7
	2015	568	19.2	31.5	22.6	20.5	19.2	3.7	2.5	22.1	16.7
Germany	2011	568	50.7	12.4	15.2	16.7	50.7	4.1	1.0	53.0	48.5
	2015	571	51.4	13.2	16.7	12.9	51.4	4.6	1.1	51.5	51.2
Hong Kong SAR	2011	566	27.1	37.3	17.0	17.0	27.1	1.6	0.0	23.9	29.8
	2015	531	37.5	27.9	18.5	15.2	37.5	0.9	0.0	33.4	40.7
Hungary	2011	740	33.0	24.0	19.8	18.6	33.0	3.1	1.6	32.9	33.1
	2015	719	34.4	27.3	19.4	14.9	34.4	2.8	1.3	31.5	36.8
Iran, Islamic Rep. of	2011	814	12.4	37.7	23.2	18.6	12.4	3.7	4.4	11.8	13.1
	2015	548	16.7	40.4	16.2	15.9	16.7	7.2	3.6	13.9	19.4
Ireland	2011	652	25.3	27.0	24.1	20.3	25.3	2.7	0.6	28.5	22.1
	2015	616	28.6	26.6	26.7	15.7	28.6	1.1	1.4	29.6	27.5
Italy	2011	603	25.9	26.0	24.6	19.3	25.9	3.1	1.2	25.3	26.4
	2015	621	20.8	34.2	22.3	18.8	20.8	3.3	0.5	21.4	20.3
Japan	2011	628	41.6	17.2	13.4	12.1	41.6	14.3	1.4	41.5	41.6
	2015	628	45.1	15.8	14.1	10.1	45.1	14.7	0.1	47.1	43.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_08 (M051115): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Shape that folds into a box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	21.3	39.7	15.4	18.8	21.3	2.2	2.7	20.1	22.6
	2015	671	34.7	34.9	16.7	12.5	34.7	0.6	0.5	33.4	35.9
Korea, Rep. of	2011	618	19.4	42.4	23.2	14.0	19.4	0.6	0.3	16.7	22.0
	2015	662	20.1	48.8	20.0	10.4	20.1	0.7	0.0	17.6	22.3
Kuwait	2011	577	11.1	32.1	25.5	17.0	11.1	10.6	3.8	11.6	10.6
	2015	519	9.9	39.7	23.1	14.4	9.9	8.6	4.3	11.6	7.5
Lithuania	2011	667	38.2	25.9	17.2	15.0	38.2	3.0	0.7	40.7	35.9
	2015	638	39.5	25.9	16.8	15.7	39.5	2.0	0.2	39.8	39.1
Morocco	2011	946	15.2	31.2	29.3	23.2	15.2	0.4	0.7	14.4	15.8
	2015	708	18.3	32.9	27.0	19.2	18.3	2.5	0.0	19.8	16.7
Netherlands	2011	458	35.1	20.2	20.4	21.0	35.1	2.8	0.4	36.3	33.6
	2015	630	32.9	26.7	19.3	17.4	32.9	0.9	2.7	32.3	33.4
New Zealand	2011	796	33.3	20.3	22.5	21.4	33.3	1.5	0.9	32.6	34.0
	2015	905	37.0	21.0	23.2	16.0	37.0	1.1	1.7	36.3	37.7
Northern Ireland	2011	518	36.4	18.7	23.9	17.9	36.4	2.5	0.6	39.8	32.6
	2015	433	42.1	18.6	21.0	17.7	42.1	0.7	0.0	43.1	40.6
Oman	2011	1486	13.2	31.2	30.3	17.9	13.2	4.1	3.3	14.0	12.4
	2015	1291	30.9	28.4	20.6	16.0	30.9	2.9	1.2	33.2	28.8
Portugal	2011	579	39.6	16.1	21.0	19.6	39.6	2.8	0.9	44.0	35.7
	2015	675	31.4	24.9	24.1	16.7	31.4	2.2	0.7	33.6	29.4
Qatar	2011	595	14.6	39.3	23.9	15.2	14.6	5.2	1.8	14.5	14.6
	2015	739	17.1	39.1	21.6	16.9	17.1	2.0	3.3	20.2	14.1
Russian Federation	2011	632	31.3	27.0	18.6	20.7	31.3	2.2	0.2	30.1	32.5
	2015	693	36.5	28.5	13.3	19.3	36.5	1.6	0.8	37.6	35.4
Saudi Arabia	2011	662	13.7	24.2	33.0	26.2	13.7	0.8	2.0	15.8	11.4
	2015	600	16.2	32.3	23.3	22.3	16.2	3.0	2.9	16.9	15.4
Serbia	2011	629	36.3	21.1	19.8	16.6	36.3	3.7	2.5	36.1	36.5
	2015	575	39.0	18.5	19.7	17.0	39.0	3.5	2.3	43.1	35.1
Singapore	2011	906	26.5	38.2	17.5	17.6	26.5	0.1	0.0	28.7	24.2
	2015	925	31.3	31.8	15.6	20.8	31.3	0.4	0.2	32.7	29.9
Slovak Republic	2011	813	16.2	30.6	26.4	20.2	16.2	5.9	0.7	15.3	17.1
	2015	836	20.1	33.1	25.3	16.5	20.1	4.7	0.3	20.9	19.4
Slovenia	2011	648	16.7	30.8	23.0	22.5	16.7	5.7	1.2	20.1	14.0
	2015	625	24.8	29.2	18.2	21.4	24.8	5.3	1.1	26.5	23.1
Spain	2011	580	12.3	27.4	26.6	25.2	12.3	6.4	2.2	14.5	10.4
	2015	1102	17.0	28.9	26.9	21.2	17.0	4.8	1.1	17.4	16.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

M13\_08 (M051115): Geometric Shapes and Measures / Reasoning      Type: MC      Key: D  
Label: Shape that folds into a box

COUNTRY	Year	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	26.2	23.3	24.6	18.6	26.2	5.6	1.8	26.6	25.9
	2015	593	33.8	23.8	17.9	18.2	33.8	4.1	2.2	37.4	30.0
Turkey	2011	1077	19.2	41.3	21.0	16.7	19.2	1.4	0.4	21.4	17.4
	2015	909	23.8	41.0	18.7	14.4	23.8	1.7	0.4	21.8	26.0
United Arab Emirates	2011	2081	18.0	33.1	27.6	17.7	18.0	2.2	1.4	18.0	17.9
	2015	3029	21.5	35.0	21.7	16.5	21.5	3.8	1.5	21.6	21.5
United States	2011	1811	25.9	27.7	26.2	16.8	25.9	1.8	1.4	24.2	27.7
	2015	1434	21.1	32.2	25.5	17.9	21.1	1.5	1.8	19.6	22.4
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International Avg (n=40)	2011	30190	25.8	27.9	22.2	19.1	25.8	3.7	1.4	26.3	25.4
	2015	30635	28.7	29.3	20.4	17.1	28.7	3.2	1.4	29.1	28.2
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Ontario, Canada	2011	638	31.8	22.2	23.6	18.8	31.8	1.8	1.7	30.4	33.1
	2015	641	32.2	28.7	20.5	16.1	32.2	0.4	2.0	35.7	29.1
Quebec, Canada	2011	601	32.1	21.0	26.4	17.6	32.1	1.7	1.3	31.7	32.5
	2015	399	33.4	27.2	25.9	11.3	33.4	0.2	1.9	30.6	35.9
Norway (4)	2011	447	22.0	25.1	26.0	19.5	22.0	4.4	3.0	23.7	20.2
	2015	608	23.0	30.4	23.2	15.7	23.0	3.9	3.7	25.5	20.9
Abu Dhabi, UAE	2011	583	18.1	33.4	25.6	18.7	18.1	2.5	1.7	18.4	17.8
	2015	721	18.7	35.8	23.7	17.5	18.7	2.9	1.4	19.8	17.7
Dubai, UAE	2011	881	21.5	34.4	24.9	15.4	21.5	3.0	0.9	18.5	24.2
	2015	1063	27.0	33.8	20.1	15.5	27.0	2.8	0.8	26.2	27.8
Florida, US	2011	366	21.2	31.0	28.4	17.2	21.2	1.2	1.0	19.2	23.2
	2015	299	20.7	34.4	23.9	19.0	20.7	0.7	1.2	16.9	23.9
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DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent.

M13\_09A (M051507A): Data Display / Knowing Type: CR 1 Point  
Label: Most frequent score on quiz

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	68.9	14.9	13.2	1.9	1.0	68.9	69.2	68.7
	2015	867	71.9	13.9	10.2	1.0	3.0	71.9	69.5	73.9
Bahrain	2011	588	48.9	17.3	27.8	3.8	2.1	48.9	48.9	49.0
	2015	590	52.6	18.4	23.6	3.2	2.2	52.6	54.9	50.2
Belgium (Flemish)	2011	692	54.2	28.9	15.6	0.7	0.6	54.2	56.7	51.6
	2015	773	46.8	36.5	15.5	1.1	0.1	46.8	48.8	44.9
Chile	2011	802	42.0	26.7	23.5	4.3	3.4	42.0	43.1	40.9
	2015	678	41.4	31.0	16.7	5.8	5.1	41.4	40.2	42.6
Chinese Taipei	2011	605	89.3	2.1	7.9	0.8	0.0	89.3	89.8	88.8
	2015	611	86.9	3.9	8.1	0.7	0.4	86.9	90.1	83.5
Croatia	2011	664	73.3	6.8	12.6	5.6	1.6	73.3	73.7	72.9
	2015	575	67.0	9.4	18.3	4.2	1.1	67.0	66.6	67.5
Czech Republic	2011	660	69.9	4.9	14.9	7.4	2.9	69.9	68.9	70.8
	2015	741	68.3	8.0	17.5	5.2	1.0	68.3	68.3	68.4
Denmark	2011	573	80.2	2.2	12.3	2.5	2.7	80.2	82.9	77.4
	2015	525	79.3	2.9	11.8	1.8	4.2	79.3	77.6	81.1
England	2011	469	79.6	8.6	8.7	1.8	1.4	79.6	75.8	83.0
	2015	563	79.1	8.6	11.0	0.7	0.6	79.1	82.8	75.3
Finland	2011	660	74.3	7.6	15.7	1.9	0.5	74.3	74.0	74.6
	2015	718	66.1	9.1	22.1	2.0	0.8	66.1	69.2	63.1
Georgia	2011	667	50.3	12.8	24.3	7.3	5.2	50.3	51.7	48.9
	2015	568	44.8	15.7	31.2	4.7	3.6	44.8	46.5	43.3
Germany	2011	568	75.4	5.7	13.4	3.9	1.5	75.4	73.8	77.0
	2015	571	76.7	5.5	13.2	3.0	1.6	76.7	76.1	77.2
Hong Kong SAR	2011	566	88.4	6.0	5.3	0.3	0.0	88.4	89.1	87.8
	2015	531	92.4	3.8	3.8	0.0	0.0	92.4	93.1	91.8
Hungary	2011	740	53.0	6.8	33.3	4.7	2.2	53.0	57.0	49.2
	2015	719	47.4	8.9	40.7	1.7	1.3	47.4	48.0	46.9
Iran, Islamic Rep. of	2011	814	48.0	11.8	26.3	8.4	5.5	48.0	45.0	51.0
	2015	548	46.0	19.2	23.3	7.0	4.5	46.0	44.6	47.2
Ireland	2011	652	74.8	9.1	13.1	2.4	0.7	74.8	78.6	70.7
	2015	616	79.7	8.6	9.0	0.9	1.7	79.7	80.4	79.0
Italy	2011	603	63.4	14.4	15.9	4.5	1.8	63.4	60.0	66.7
	2015	621	55.0	27.1	14.4	2.5	1.0	55.0	56.5	53.4
Japan	2011	628	87.2	4.3	6.3	0.6	1.6	87.2	90.8	83.6
	2015	628	91.2	7.1	1.3	0.1	0.3	91.2	93.5	88.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_09A (M051507A): Data Display / Knowing Type: CR 1 Point  
Label: Most frequent score on quiz

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	50.5	1.0	39.9	5.5	3.2	50.5	49.0	52.0
	2015	671	59.7	2.8	35.0	2.0	0.5	59.7	63.4	56.3
Korea, Rep. of	2011	618	71.1	24.9	3.3	0.4	0.3	71.1	76.1	66.2
	2015	662	74.8	22.4	2.7	0.2	0.0	74.8	76.1	73.7
Kuwait	2011	584	28.5	8.3	47.9	8.7	6.5	28.5	31.3	25.5
	2015	523	28.0	9.7	40.5	16.2	5.6	28.0	30.5	25.2
Lithuania	2011	667	54.8	10.1	29.3	5.1	0.7	54.8	57.9	51.9
	2015	638	66.3	11.1	19.4	2.7	0.5	66.3	70.5	61.9
Morocco	2011	1109	11.4	1.5	60.6	21.3	5.2	11.4	13.3	9.7
	2015	731	25.5	13.1	51.7	8.0	1.7	25.5	27.6	23.2
Netherlands	2011	458	62.8	25.4	9.6	1.6	0.6	62.8	65.4	60.8
	2015	630	61.9	25.1	9.8	0.5	2.7	61.9	62.1	61.8
New Zealand	2011	796	69.3	14.0	14.1	1.4	1.2	69.3	68.8	69.7
	2015	905	71.6	14.3	11.1	1.3	1.7	71.6	73.0	70.1
Northern Ireland	2011	518	82.9	7.5	7.5	1.6	0.6	82.9	82.4	83.4
	2015	439	80.6	8.6	10.2	0.4	0.1	80.6	84.6	76.0
Oman	2011	1487	30.0	14.7	46.4	4.8	4.1	30.0	31.9	27.9
	2015	1292	39.8	16.7	38.2	3.7	1.6	39.8	40.2	39.4
Portugal	2011	579	77.1	12.5	7.5	1.7	1.2	77.1	80.9	73.7
	2015	675	80.4	12.1	6.3	0.4	0.8	80.4	81.6	79.4
Qatar	2011	595	39.0	17.6	36.3	4.5	2.6	39.0	40.8	37.4
	2015	739	46.6	17.0	29.3	3.5	3.5	46.6	44.3	48.9
Russian Federation	2011	632	75.4	2.3	19.3	2.5	0.5	75.4	76.6	74.2
	2015	693	78.3	4.5	15.2	1.1	0.8	78.3	79.5	77.1
Saudi Arabia	2011	662	34.6	12.9	45.4	5.1	2.0	34.6	32.6	36.8
	2015	602	35.6	9.6	43.5	7.7	3.6	35.6	39.8	30.9
Serbia	2011	630	65.0	6.7	19.7	5.0	3.5	65.0	61.9	67.9
	2015	575	59.6	7.2	22.9	7.7	2.6	59.6	66.3	53.2
Singapore	2011	906	83.1	8.5	8.3	0.1	0.0	83.1	82.1	84.2
	2015	925	84.4	7.3	7.3	0.8	0.2	84.4	83.7	85.1
Slovak Republic	2011	813	62.5	5.8	25.1	5.4	1.2	62.5	64.2	60.7
	2015	836	63.4	6.9	24.1	4.8	0.8	63.4	60.9	66.0
Slovenia	2011	650	64.1	7.3	22.9	3.8	1.8	64.1	62.4	65.5
	2015	625	64.3	8.4	23.9	1.8	1.7	64.3	63.1	65.4
Spain	2011	580	53.0	16.9	22.4	5.1	2.7	53.0	53.6	52.4
	2015	1102	59.2	15.4	22.0	1.5	1.9	59.2	57.9	60.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_09A (M051507A): Data Display / Knowing Type: CR 1 Point  
Label: Most frequent score on quiz

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	70.9	7.0	16.7	2.9	2.6	70.9	74.1	68.2
	2015	593	70.4	6.9	18.6	0.9	3.2	70.4	71.5	69.3
Turkey	2011	1077	48.7	17.3	29.9	3.7	0.4	48.7	51.5	46.4
	2015	909	50.7	20.8	26.1	1.8	0.6	50.7	53.5	47.8
United Arab Emirates	2011	2081	47.9	14.0	33.0	3.4	1.7	47.9	48.5	47.3
	2015	3029	49.8	18.0	25.7	4.2	2.2	49.8	51.6	48.2
United States	2011	1811	80.1	10.1	6.9	1.3	1.6	80.1	80.5	79.7
	2015	1434	80.1	9.8	7.7	0.5	1.9	80.1	79.9	80.2
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International Avg (n=40)	2011	30358	62.1	10.9	21.1	3.9	2.0	62.1	62.9	61.4
	2015	30671	63.1	12.6	19.6	2.9	1.8	63.1	64.2	61.9
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Ontario, Canada	2011	638	79.1	7.5	9.9	1.4	2.2	79.1	80.6	77.8
	2015	641	78.4	10.5	8.0	0.9	2.0	78.4	75.3	81.1
Quebec, Canada	2011	601	75.8	9.0	11.7	2.1	1.4	75.8	75.3	76.3
	2015	401	73.8	12.6	9.9	1.8	1.9	73.8	77.1	70.7
Norway (4)	2011	447	66.5	11.8	15.6	2.6	3.5	66.5	70.2	62.6
	2015	608	66.3	15.4	12.1	2.4	3.9	66.3	67.5	65.2
Abu Dhabi, UAE	2011	583	43.5	11.9	39.0	3.6	2.1	43.5	43.2	43.7
	2015	721	43.8	21.1	29.3	3.8	2.1	43.8	46.3	41.4
Dubai, UAE	2011	881	54.9	16.6	24.2	3.1	1.2	54.9	55.8	54.0
	2015	1063	62.8	17.0	16.4	2.3	1.6	62.8	62.6	62.9
Florida, US	2011	366	79.5	10.9	6.8	1.6	1.2	79.5	79.7	79.2
	2015	299	81.9	9.8	6.4	0.4	1.6	81.9	82.5	81.4
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V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.

M13\_09B (M051507B): Data Display / Applying Type: CR 1 Point  
Label: Score of 4 or more on quiz

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	2011	884	22.9	7.8	66.0	1.6	1.7	22.9	25.5	20.4
	2015	867	29.1	0.3	66.3	0.8	3.5	29.1	32.1	26.6
Bahrain	2011	588	8.8	5.7	80.3	0.9	4.3	8.8	10.8	6.9
	2015	590	9.3	6.5	78.2	0.7	5.2	9.3	10.7	7.9
Belgium (Flemish)	2011	692	28.7	27.8	41.8	0.8	0.9	28.7	27.6	29.8
	2015	773	24.6	38.1	35.8	0.5	1.0	24.6	22.7	26.5
Chile	2011	802	11.9	2.1	77.0	3.4	5.5	11.9	10.2	13.8
	2015	678	16.2	1.6	70.4	2.3	9.5	16.2	18.2	14.4
Chinese Taipei	2011	605	63.2	12.2	23.9	0.3	0.4	63.2	63.9	62.7
	2015	611	63.3	1.4	34.5	0.2	0.6	63.3	64.6	62.0
Croatia	2011	664	19.6	42.4	29.2	4.8	4.0	19.6	16.1	23.3
	2015	575	17.6	5.7	71.0	1.5	4.2	17.6	14.5	20.4
Czech Republic	2011	660	25.0	9.4	56.0	4.2	5.4	25.0	22.5	27.5
	2015	741	27.1	10.0	56.9	2.8	3.2	27.1	27.5	26.8
Denmark	2011	573	36.7	20.2	37.0	2.8	3.3	36.7	37.3	36.1
	2015	525	33.8	16.8	43.5	0.5	5.4	33.8	35.8	31.8
England	2011	469	38.1	1.1	58.2	0.6	1.9	38.1	38.2	38.1
	2015	563	37.5	0.9	59.7	0.6	1.3	37.5	40.2	34.6
Finland	2011	660	33.6	2.9	60.7	1.4	1.3	33.6	32.3	35.0
	2015	718	29.3	0.5	66.9	2.0	1.2	29.3	27.6	30.9
Georgia	2011	667	10.1	11.5	65.3	4.3	8.7	10.1	12.9	7.3
	2015	568	15.6	12.7	62.6	3.0	6.1	15.6	16.7	14.7
Germany	2011	568	30.8	5.1	57.5	3.6	3.0	30.8	27.7	33.7
	2015	571	37.4	3.2	53.8	2.9	2.7	37.4	36.7	37.8
Hong Kong SAR	2011	566	63.4	2.0	34.1	0.5	0.0	63.4	65.6	61.6
	2015	531	70.5	3.0	26.3	0.2	0.0	70.5	68.7	72.0
Hungary	2011	740	23.0	2.5	67.8	2.9	3.9	23.0	23.9	22.1
	2015	719	21.8	3.0	72.6	1.0	1.7	21.8	20.7	22.8
Iran, Islamic Rep. of	2011	814	5.9	20.5	56.6	6.5	10.5	5.9	4.8	7.1
	2015	548	4.7	1.2	79.4	6.2	8.5	4.7	3.6	5.7
Ireland	2011	652	24.8	0.4	72.0	0.6	2.3	24.8	28.0	21.4
	2015	616	37.1	0.4	59.8	0.1	2.6	37.1	40.7	33.5
Italy	2011	603	20.1	2.4	70.7	3.8	3.0	20.1	18.2	22.0
	2015	621	18.4	7.8	69.0	2.7	2.0	18.4	17.5	19.3
Japan	2011	628	44.8	0.0	52.9	0.5	1.9	44.8	47.2	42.4
	2015	628	50.9	0.0	48.3	0.5	0.3	50.9	52.9	48.7

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M13\_09B (M051507B): Data Display / Applying Type: CR 1 Point  
Label: Score of 4 or more on quiz

COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Kazakhstan	2011	617	23.0	13.3	51.7	5.0	7.0	23.0	21.4	24.7
	2015	671	31.1	32.4	33.6	2.0	0.9	31.1	32.2	30.1
Korea, Rep. of	2011	618	43.1	40.5	15.6	0.4	0.4	43.1	45.0	41.2
	2015	662	46.3	0.0	53.6	0.0	0.1	46.3	43.2	48.9
Kuwait	2011	584	3.1	11.9	69.5	4.3	11.2	3.1	3.5	2.6
	2015	523	4.2	3.6	68.4	9.9	14.0	4.2	5.6	2.8
Lithuania	2011	667	20.0	0.5	73.6	1.8	4.2	20.0	25.3	15.2
	2015	638	25.5	0.8	70.0	1.9	1.8	25.5	31.2	19.5
Morocco	2011	1108	3.8	0.1	69.1	8.0	19.0	3.8	5.3	2.5
	2015	731	6.8	2.3	81.6	4.0	5.3	6.8	7.8	5.7
Netherlands	2011	458	34.7	13.7	49.2	1.3	1.1	34.7	36.2	33.4
	2015	630	36.2	5.0	55.1	0.5	3.2	36.2	34.4	38.1
New Zealand	2011	796	22.1	0.9	74.2	1.4	1.4	22.1	22.4	21.8
	2015	905	26.9	0.5	69.3	0.8	2.6	26.9	28.5	25.2
Northern Ireland	2011	518	44.2	0.0	53.7	1.5	0.6	44.2	46.8	41.4
	2015	439	48.5	0.2	50.7	0.2	0.3	48.5	51.6	44.6
Oman	2011	1487	5.7	1.5	82.2	3.3	7.3	5.7	6.0	5.4
	2015	1292	8.8	7.1	78.0	2.7	3.4	8.8	10.1	7.5
Portugal	2011	579	34.0	3.7	59.6	0.2	2.5	34.0	31.5	36.3
	2015	675	48.1	1.7	48.5	0.7	1.0	48.1	49.8	46.6
Qatar	2011	595	7.1	0.7	84.5	2.5	5.2	7.1	8.5	6.0
	2015	739	10.6	2.5	78.9	1.8	6.2	10.6	12.4	8.9
Russian Federation	2011	632	28.4	6.2	61.8	1.5	2.1	28.4	29.7	27.1
	2015	693	37.2	32.4	28.5	0.6	1.4	37.2	39.9	34.5
Saudi Arabia	2011	662	7.5	7.7	77.7	3.0	4.1	7.5	4.3	11.1
	2015	602	7.3	18.3	62.9	5.0	6.6	7.3	8.6	5.8
Serbia	2011	630	23.7	5.0	60.2	5.8	5.3	23.7	20.4	26.8
	2015	575	22.5	11.7	55.6	2.2	8.0	22.5	23.1	21.9
Singapore	2011	906	30.2	0.1	69.6	0.0	0.1	30.2	30.1	30.2
	2015	925	35.2	0.0	63.8	0.3	0.7	35.2	33.8	36.5
Slovak Republic	2011	813	23.1	4.2	65.9	2.8	4.0	23.1	24.7	21.4
	2015	836	24.5	3.4	66.0	3.0	3.1	24.5	22.0	27.0
Slovenia	2011	650	40.2	7.6	46.7	2.3	3.2	40.2	39.0	41.2
	2015	625	37.8	30.3	28.4	1.0	2.5	37.8	39.0	36.6
Spain	2011	580	16.9	6.8	67.4	3.0	5.9	16.9	17.6	16.2
	2015	1102	29.0	9.7	57.8	1.1	2.4	29.0	25.5	32.4

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COUNTRY	Year	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2011	653	32.1	4.7	57.8	0.6	4.7	32.1	33.1	31.3
	2015	593	27.0	0.4	67.7	1.4	3.6	27.0	26.8	27.3
Turkey	2011	1077	19.4	22.8	53.8	2.0	2.1	19.4	18.9	19.8
	2015	909	17.2	25.0	55.2	1.2	1.4	17.2	17.4	17.0
United Arab Emirates	2011	2081	10.5	9.0	75.2	1.8	3.5	10.5	10.5	10.4
	2015	3028	12.9	2.2	78.1	2.2	4.5	12.9	13.6	12.2
United States	2011	1811	37.1	0.9	58.9	0.4	2.7	37.1	37.6	36.5
	2015	1434	38.6	0.5	58.4	0.2	2.3	38.6	38.3	38.9
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International Avg (n=40)	2011	30357	25.5	8.4	59.6	2.4	4.0	25.5	25.8	25.3
	2015	30670	28.2	7.6	59.1	1.8	3.4	28.2	28.7	27.6
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Ontario, Canada	2011	638	33.6	1.4	61.3	0.3	3.4	33.6	34.4	32.9
	2015	641	34.6	4.1	57.9	0.5	3.0	34.6	37.0	32.7
Quebec, Canada	2011	601	39.6	3.0	53.5	1.3	2.6	39.6	39.6	39.7
	2015	401	38.4	0.6	56.8	0.7	3.6	38.4	38.5	38.2
Norway (4)	2011	447	25.6	2.8	64.0	3.2	4.5	25.6	25.7	25.4
	2015	608	21.9	1.6	69.8	1.1	5.5	21.9	16.3	26.8
Abu Dhabi, UAE	2011	583	7.4	8.8	78.0	1.7	4.0	7.4	6.9	8.0
	2015	721	8.8	1.5	83.2	2.6	3.9	8.8	9.4	8.3
Dubai, UAE	2011	881	17.1	5.7	72.3	2.5	2.5	17.1	18.0	16.3
	2015	1062	21.2	2.8	71.4	1.5	3.2	21.2	21.8	20.6
Florida, US	2011	366	32.4	0.5	64.5	0.4	2.2	32.4	31.5	33.3
	2015	299	44.1	0.0	54.0	0.0	2.0	44.1	46.3	42.3
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