

## Eighth-Grade Mathematics

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## TIMSS 2011 TCMA National Item Selection

## Eighth-Grade Mathematics

Country  Item (pts)			● Item covered in national curriculum																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			Thailand	Tunisia	Turkey	Ukraine	United Arab Emirates	United States	Ninth Grade Countries		Botswana	South Africa	Benchmarking Participants																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Country  Item (pts)			● Item covered in national curriculum												○ Item not covered in national curriculum																
			Armenia	Australia	Chile	Chinese Taipei	England	Finland	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Israel	Italy	Japan	Jordan	Kazakhstan	Korea, Rep. of	Lebanon	Lithuania	Macedonia, Rep. of	Malaysia	Morocco	New Zealand	Norway	Oman	Palestinian Nat'l Auth.	Qatar	Romania	Russian Federation	Singapore	Slovenia
M04_08	M052103	(1)	●	●	○	●	●	●	●	●	●	●	○	●	●	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●
M04_09	M052066	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M04_10	M052041	(1)	●	○	○	○	●	●	●	●	●	●	○	○	●	○	○	●	●	●	○	●	○	○	●	○	●	○	○	○	○
M04_11	M052057	(1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M04_12	M052417	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○
M04_13	M052501	(1)	●	●	●	●	●	●	●	●	●	●	○	○	●	○	○	●	●	●	○	●	●	●	●	●	○	●	●	●	●
M04_14	M052410	(1)	●	●	●	●	●	●	○	○	○	●	○	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M04_15	M052170	(1)	●	●	●	●	●	○	○	○	●	○	○	●	○	○	●	●	●	○	○	●	●	○	●	●	○	○	○	○	○
M05_01	M032094	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M05_02	M032662	(1)	●	●	●	●	●	●	●	●	○	●	●	○	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●
M05_03	M032064	(1)	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M05_04	M032419	(1)	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_05	M032477	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_06	M032538	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_07	M032324	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○
M05_08	M032116	(1)	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_09	M032100	(1)	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_10	M032402	(1)	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_11	M032734	(1)	●	●	●	●	●	●	●	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_12	M032397	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_13	M032695	(2)	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M05_14	M032132	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_01	M042041	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M06_02	M042024	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M06_03	M042016	(1)	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_04	M042002	(1)	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_05A	M042198A	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_05B	M042198B	(1)	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_05C	M042198C	(1)	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_06	M042077	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_07	M042235	(1)	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_08	M042067	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_09	M042150	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_10Z	M042300Z	(2)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_11	M042260	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_12A	M042169A	(1)	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_12B	M042169B	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M06_12C	M042169C	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_01	M032352	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M07_02	M032725	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_03	M032683	(2)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_04	M032738	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_05	M032295	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_06	M032331	(1)	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_07	M032623	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○
M07_08	M032679	(1)	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_09	M032047	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_10	M032398	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_11	M032507	(1)	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M07_12	M032424	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

## TIMSS 2011 TCMA National Item Selection

## Eighth-Grade Mathematics

Country  Item (pts)			● Item covered in national curriculum						Ninth Grade Countries		Botswana  South Africa		Benchmarking Participants		Alberta, Canada Ontario, Canada Quebec, Canada Abu Dhabi, UAE Dubai, UAE														
			Thailand	Tunisia	Turkey	Ukraine	United Arab Emirates	United States																					
M04_08	M052103	(1)	●	●	●	●	●	●												●	●	●	●	●	●	●	●	●	●
M04_09	M052066	(1)	●	○	●																●	●	●	●	●	●	●	●	●
M04_10	M052041	(1)	●	○	●	●																●	●	●	●	●	●	●	●
M04_11	M052057	(1)	●	○	●	●																●	●	●	●	●	●	●	●
M04_12	M052417	(1)	●	●	●	●		○												●	●	●	●	●	●	●	●	●	●
M04_13	M052501	(1)	●	●	●																●	●	●	●	●	●	●	●	●
M04_14	M052410	(1)	●	●	●	●		○												●	●	●	●	●	●	●	●	●	●
M04_15	M052170	(1)	●	●	●		○	●												●	●	●	●	●	●	●	●	●	●
M05_01	M032094	(1)	●	●																	●	●	●	●	●	●	●	●	●
M05_02	M032662	(1)	●	●						●	●	●	●	●	●	●	●	●											
M05_03	M032064	(1)	●	●						●	●	●	●	●	●	●	●	●											
M05_04	M032419	(1)	●	●	●					●	●	●	●	●	●	●	●	●											
M05_05	M032477	(1)	●	●						●	●	●	●	●	●	●	●	●											
M05_06	M032538	(1)	●	●						●	●	●	●	●	●	●	●	●											
M05_07	M032324	(1)	●	○	●	●				○	●	●	●	●	●	●	●	●											
M05_08	M032116	(1)	●	●						●	●	●	●	●	●	●	●	●											
M05_09	M032100	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M05_10	M032402	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M05_11	M032734	(1)	●	●	●	●		○	●	○	●	●	●	●	●	●	●	●											
M05_12	M032397	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M05_13	M032695	(2)	●	●	●	●		○	●	●	●	●	●	●	●	●	●	●											
M05_14	M032132	(1)	●	●	●		○	●	●	○	●	●	●	●	●	●	●	●											
M06_01	M042041	(1)	●	●						●	●	●	●	●	●	●	●	●											
M06_02	M042024	(1)	●	●	●					●	●	●	●	●	●	●	●	●											
M06_03	M042016	(1)	●	●	●	●		○	○	●	●	●	○	●	●	●	●	●											
M06_04	M042002	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M06_05A	M042198A	(1)	●	●						●	●	●	●	●	●	●	●	●											
M06_05B	M042198B	(1)	●	●						●	●	●	●	●	●	●	●	●											
M06_05C	M042198C	(1)	●	○						●	●	●	●	●	●	●	●	●											
M06_06	M042077	(1)	●	●	●					●	●	●	●	●	●	●	●	●											
M06_07	M042235	(1)	●	○	●				○	●	●	●	○	●	●	○	●	●											
M06_08	M042067	(1)	●	●	●	●				●	●	●	○	○	●	●	●	●											
M06_09	M042150	(1)	●	●						●	●	●	●	●	●	●	●	●											
M06_10Z	M042300Z	(2)	●	●	●	●				●	●	●	●	●	●	●	●	●											
M06_11	M042260	(1)	●	●	●	●				○	●	●	●	●	●	●	●	●											
M06_12A	M042169A	(1)	●	●	●		○	●	●	●	●	●	●	●	●	●	●	●											
M06_12B	M042169B	(1)	●	●	●		○	●	●	●	●	●	●	○	●	●	●	●											
M06_12C	M042169C	(1)	●	●	●			○	●	●	●	●	●	○	●	●	●	●											
M07_01	M032352	(1)	●	●						●	●	●	●	●	●	●	●	●											
M07_02	M032725	(1)	●	●	●	●				●	●	●	●	●	●	●	●	●											
M07_03	M032683	(2)	●	●	●				○	●	●	●	●	○	●	●	●	●											
M07_04	M032738	(1)	●	●	●	●				●	●	●	●	●	●	●	●	●											
M07_05	M032295	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M07_06	M032331	(1)	●	●	●					●	●	●	●	●	●	●	●	●											
M07_07	M032623	(1)	●	●			○	●	●	●	●	●	●	●	●	●	●	●											
M07_08	M032679	(1)	●	○	●	●				●	●	●	●	●	●	●	●	●											
M07_09	M032047	(1)	●	●	●	●		○	●	●	●	●	○	●	●	●	●	●											
M07_10	M032398	(1)	●	●	●	●				●	●	●	●	●	●	●	●	●											
M07_11	M032507	(1)	●	○	●	●			○	●	○	●	●	●	●	●	●	●											
M07_12	M032424	(1)	●	●	●		○	●	●	●	●	●	●	○	●	●	●	●											

Country  Item (pts)			● Item covered in national curriculum															○ Item not covered in national curriculum														
			Armenia	Australia	Chile	Chinese Taipei	England	Finland	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Israel	Italy	Japan	Jordan	Kazakhstan	Korea, Rep. of	Lebanon	Lithuania	Macedonia, Rep. of	Malaysia	Morocco	New Zealand	Norway	Oman	Palestinian Nat'l Auth.	Qatar	Romania	Russian Federation	Singapore	Slovenia	Sweden
M07_13A	M032681A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M07_13B	M032681B	(1)	●	●	●	●	●	●	●	●	○	●	●	●	●	○	●	●	●	●	●	●	●	●	○	●	●	○	●	●	●	●
M07_13C	M032681C	(1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	○	●	●	●	●	●
M08_01	M052413	(1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_02	M052134	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_03	M052078	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_04	M052034	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_05A	M052174A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_05B	M052174B	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
M08_06	M052130	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●
M08_07	M052073	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●
M08_08	M052110	(1)	●	●	○	●	●	●	●	●	●	●	○	●	○	●	●	●	○	○	●	○	○	○	○	○	○	○	○	○	○	○
M08_09	M052105	(1)	●	●	○	●	●	○	●	●	●	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M08_10	M052407	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○
M08_11	M052036	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_12	M052502	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_13	M052117	(1)	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M08_14	M052426	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_01	M042183	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_02	M042060	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_03	M042019	(1)	●	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_04	M042023	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_05	M042197	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
M09_06	M042234	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_07	M042066	(1)	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_08	M042243	(1)	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_09	M042248	(1)	●	●	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_10Z	M042229Z	(2)	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_11A	M042080A	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_11B	M042080B	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_12	M042120	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_13	M042203	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M09_14	M042264	(1)	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_15	M042255	(1)	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M09_16	M042224	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M10_01	M052017	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_02	M052217	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_03	M052021	(2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M10_04	M052095	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_05	M052094	(1)	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_06	M052131	(1)	●	●	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_07	M052090	(1)	●	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_08A	M052121A	(1)	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_08B	M052121B	(1)	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_09	M052042	(1)	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_10	M052047	(1)	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_11	M052044	(1)	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M10_12A	M052422A	(1)	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○												

## Eighth-Grade Mathematics

- Item covered in national curriculum

Country  Item (pts)			● Item covered in national curriculum										○ Item not covered in national curriculum																		
			Armenia	Australia	Chile	Chinese Taipei	England	Finland	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Israel	Italy	Japan	Jordan	Kazakhstan	Korea, Rep. of	Lebanon	Lithuania	Macedonia, Rep. of	Malaysia	Morocco	New Zealand	Norway	Oman	Palestinian Nat'l Auth.	Qatar	Romania	Russian Federation	Singapore	Slovenia
M11_01	M042015	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
M11_02	M042196	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_03	M042194	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_04A	M042114A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_04B	M042114B	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_05	M042112	(1)	●	●	○	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M11_06	M042109	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	○
M11_07	M042050	(1)	●	●	○	●	●	●	●	●	●	●	○	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●
M11_08A	M042074A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●	○	○	●	●	●	●
M11_08B	M042074B	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●	○	○	●	●	●	●
M11_08C	M042074C	(1)	●	●	○	●	●	●	●	○	●	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
M11_09	M042151	(1)	●	●	●	●	●	●	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	○
M11_10	M042132	(1)	●	○	●	●	○	●	●	○	●	○	●	○	●	●	●	●	●	●	●	●	○	●	○	○	●	●	●	○	○
M11_11	M042257	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_12	M042158	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_13	M042252	(1)	●	○	●	●	○	●	●	●	●	●	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○
M11_14	M042261	(1)	●	●	●	○	●	●	○	●	●	●	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
M12_01	M052079	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_02	M052204	(1)	●	●	●	●	●	○	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○
M12_03	M052364	(1)	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_04	M052215	(1)	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○
M12_05	M052147	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	○	○	○	○	○	○	○
M12_06	M052067	(1)	●	●	○	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
M12_07	M052068	(1)	●	●	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M12_08	M052087	(1)	●	○	○	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

# TIMSS 2011 TCMA National Item Selection

# Eighth-Grade Mathematics

Country Item (pts)			● Item covered in national curriculum						Ninth Grade Countries		Benchmarking Participants									
			Thailand	Tunisia	Turkey	Ukraine	United Arab Emirates	United States					Botswana	South Africa						
M11_01	M042015	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●
M11_02	M042196	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_03	M042194	(1)	●	●					●	●	●	●	●	●	●	●	●	●	●	●
M11_04A	M042114A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_04B	M042114B	(1)	●	●					●	●	●	●	●	●	●	●	●	●	●	●
M11_05	M042112	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_06	M042109	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●
M11_07	M042050	(1)	●	●					●	●	●	○	●	●	●	●	●	●	●	●
M11_08A	M042074A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_08B	M042074B	(1)	●	●					●	●	●	●	●	●	●	●	●	●	●	●
M11_08C	M042074C	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_09	M042151	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_10	M042132	(1)	●	●	●	○	●	●	●	●	●	○	○	●	●	●	●	●	●	●
M11_11	M042257	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M11_12	M042158	(1)	●	●					●	●	●	●	●	●	●	●	●	●	●	●
M11_13	M042252	(1)	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●
M11_14	M042261	(1)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
M12_01	M052079	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_02	M052204	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_03	M052364	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_04	M052215	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12_05	M052147	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●
M12_06	M052067	(1)	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●
M12_07	M052068	(1)	●	●	●	●	○	●	●	●	●	○	○	●	●	●	●	●	●	●
M12_08	M052087	(1)	●	○	●	●	○	○	●	●	●	○	○	○	○	○	○	○	○	○