Appendix 4A: Summary Statistics and Standard Errors for Proficiency in Mathematics at the Fourth Grade

Summary Statistics and Standard Errors for Proficiency in Overall Mathematics at the Fourth Grade

Country	Sample Size	Overall Mathematics				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	517.227	9.180	0.174	9.354	3.058
Bahrain	8575	451.033	2.144	0.533	2.678	1.636
Belgium (Flemish)	5404	545.657	4.087	0.184	4.270	2.066
Bulgaria	4228	524.284	26.748	0.899	27.648	5.258
Canada	12283	510.556	5.420	0.066	5.486	2.342
Chile	4756	458.582	5.510	0.301	5.811	2.411
Chinese Taipei	4291	596.619	3.192	0.289	3.481	1.866
Croatia	3985	502.335	2.968	0.104	3.072	1.753
Cyprus	4125	523.026	6.540	0.599	7.139	2.672
Czech Republic	5202	528.138	4.982	0.004	4.985	2.233
Denmark	3710	538.653	6.661	0.791	7.452	2.730
England	4006	546.187	7.841	0.227	8.068	2.840
Finland	5015	535.288	3.854	0.232	4.086	2.021
France	4873	488.168	7.660	0.893	8.553	2.925
Georgia	3919	463.149	12.819	0.292	13.111	3.621
Germany	3948	521.634	3.927	0.221	4.148	2.037
Hong Kong SAR	3600	614.520	8.074	0.147	8.220	2.867
Hungary	5036	529.191	9.784	0.144	9.928	3.151
Indonesia	8319	397.463	12.752	1.024	13.777	3.712
Iran, Islamic Rep. of	7928	431.488	8.672	1.836	10.508	3.242
Ireland	4344	547.337	4.373	0.218	4.591	2.143
Italy	4373	506.848	5.650	0.863	6.513	2.552
Japan	4383	592.826	3.422	0.382	3.804	1.950
Jordan	7861	388.466	8.536	0.835	9.371	3.061
Kazakhstan	4702	544.420	19.711	0.530	20.241	4.499
Korea, Rep. of	4669	608.035	4.106	0.791	4.897	2.213
Kuwait	7296	353.064	19.132	2.303	21.435	4.630
Lithuania	4529	535.341	5.991	0.114	6.106	2.471
Morocco	10428	377.455	11.087	0.794	11.881	3.447
Netherlands	4515	529.819	2.564	0.345	2.910	1.706

Summary Statistics and Standard Errors for Proficiency in Overall Mathematics at the Fourth Grade (Continued)

Country	Sample Size	Overall Mathematics				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
New Zealand	6322	490.561	5.360	0.125	5.485	2.342
Northern Ireland	3116	570.261	8.349	0.321	8.669	2.944
Norway (5)	4329	549.080	5.657	0.474	6.131	2.476
Oman	9105	425.483	5.474	0.753	6.227	2.495
Poland	4747	534.773	4.367	0.157	4.523	2.127
Portugal	4693	541.200	4.494	0.496	4.989	2.234
Qatar	5194	438.996	11.187	0.580	11.767	3.430
Russian Federation	4921	563.922	11.152	0.544	11.696	3.420
Saudi Arabia	4337	383.489	13.929	2.566	16.495	4.061
Serbia	4036	517.998	11.696	0.809	12.505	3.536
Singapore	6517	617.671	14.631	0.074	14.705	3.835
Slovak Republic	5773	498.247	5.669	0.464	6.134	2.477
Slovenia	4445	519.875	3.164	0.398	3.561	1.887
South Africa (5)	10932	375.738	11.392	0.857	12.249	3.500
Spain	7764	505.095	5.641	0.380	6.021	2.454
Sweden	4142	518.647	7.233	0.666	7.899	2.811
Turkey	6456	483.150	9.202	0.170	9.371	3.061
United Arab Emirates	21177	451.582	5.550	0.183	5.733	2.394
United States	10029	539.156	4.810	0.283	5.094	2.257
Benchmarking Participants						
Buenos Aires, Argentina	6435	432.273	7.325	0.894	8.219	2.867
Ontario, Canada	4574	512.460	5.232	0.223	5.454	2.335
Quebec, Canada	2798	535.831	15.503	0.318	15.821	3.978
Norway (4)	4164	492.997	4.926	0.353	5.279	2.298
Abu Dhabi, UAE	5001	419.290	21.292	0.699	21.991	4.689
Dubai, UAE	7453	510.644	1.744	0.317	2.061	1.436
Florida, US	2025	546.136	21.622	0.774	22.396	4.732

Summary Statistics and Standard Errors for Proficiency in Number at the Fourth Grade

Country	Sample Size	Number				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	508.851	9.611	0.280	9.891	3.145
Bahrain	8575	452.815	2.088	0.675	2.763	1.662
Belgium (Flemish)	5404	543.155	4.260	0.104	4.364	2.089
Bulgaria	4228	529.334	20.608	0.515	21.124	4.596
Canada	12283	502.819	5.198	0.441	5.639	2.375
Chile	4756	454.772	5.665	1.715	7.380	2.717
Chinese Taipei	4291	599.348	2.857	0.366	3.223	1.795
Croatia	3985	498.113	2.777	0.431	3.208	1.791
Cyprus	4125	528.457	5.996	0.446	6.443	2.538
Czech Republic	5202	527.843	4.840	0.701	5.541	2.354
Denmark	3710	534.889	6.540	0.798	7.338	2.709
England	4006	546.815	9.374	0.942	10.317	3.212
Finland	5015	531.763	4.039	0.360	4.400	2.098
France	4873	483.394	7.418	1.404	8.822	2.970
Georgia	3919	482.823	11.505	1.086	12.591	3.548
Germany	3948	514.912	3.557	0.650	4.207	2.051
Hong Kong SAR	3600	616.270	8.684	0.858	9.542	3.089
Hungary	5036	531.155	8.829	0.388	9.217	3.036
Indonesia	8319	399.062	12.209	0.683	12.893	3.591
Iran, Islamic Rep. of	7928	434.999	9.226	1.269	10.494	3.239
Ireland	4344	550.958	4.306	0.670	4.977	2.231
Italy	4373	509.849	5.341	0.412	5.752	2.398
Japan	4383	591.630	3.333	0.412	3.745	1.935
Jordan	7861	387.570	8.177	1.584	9.761	3.124
Kazakhstan	4702	551.851	15.616	0.384	16.001	4.000
Korea, Rep. of	4669	609.928	5.283	1.387	6.671	2.583
Kuwait	7296	356.452	19.530	1.197	20.728	4.553
Lithuania	4529	538.033	6.506	0.210	6.717	2.592
Morocco	10428	380.950	10.328	0.772	11.100	3.332
Netherlands	4515	531.301	2.924	1.719	4.643	2.155
New Zealand	6322	485.429	6.303	0.767	7.070	2.659
Northern Ireland	3116	574.436	9.277	0.317	9.594	3.097
Norway (5)	4329	541.911	5.620	0.282	5.902	2.429
Oman	9105	422.905	6.003	0.609	6.612	2.571

Summary Statistics and Standard Errors for Proficiency in Number at the Fourth Grade (Continued)

Country	Sample Size	Number				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Poland	4747	534.465	4.758	0.366	5.125	2.264
Portugal	4693	540.532	4.466	0.144	4.610	2.147
Qatar	5194	446.286	10.509	0.729	11.238	3.352
Russian Federation	4921	566.810	10.385	0.589	10.974	3.313
Saudi Arabia	4337	383.836	14.210	2.737	16.947	4.117
Serbia	4036	524.028	10.989	0.428	11.417	3.379
Singapore	6517	629.864	16.408	0.852	17.260	4.154
Slovak Republic	5773	501.968	4.884	0.882	5.766	2.401
Slovenia	4445	511.296	3.299	0.076	3.376	1.837
South Africa (5)	10932	378.542	11.067	0.637	11.705	3.421
Spain	7764	504.283	5.160	0.969	6.129	2.476
Sweden	4142	513.920	6.836	0.203	7.039	2.653
Turkey	6456	488.944	9.248	0.941	10.188	3.192
United Arab Emirates	21177	455.060	5.181	0.417	5.598	2.366
United States	10029	545.596	4.707	0.244	4.951	2.225
Benchmarking Participants						
Buenos Aires, Argentina	6435	445.025	6.299	2.311	8.610	2.934
Ontario, Canada	4574	499.676	5.949	0.932	6.881	2.623
Quebec, Canada	2798	532.917	16.831	0.450	17.282	4.157
Norway (4)	4164	488.824	4.384	0.627	5.011	2.238
Abu Dhabi, UAE	5001	421.618	20.273	1.405	21.678	4.656
Dubai, UAE	7453	513.505	2.003	0.283	2.286	1.512
Florida, US	2025	556.001	22.518	1.137	23.654	4.864

Summary Statistics and Standard Errors for Proficiency in Geometric Shapes and Measures at the Fourth Grade

Country	Sample Size	Geometric Shapes and Measures				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	527.101	9.110	1.914	11.024	3.320
Bahrain	8575	446.983	2.314	1.300	3.614	1.901
Belgium (Flemish)	5404	563.591	4.317	1.058	5.375	2.318
Bulgaria	4228	524.890	34.326	0.591	34.917	5.909
Canada	12283	517.057	6.077	0.302	6.379	2.526
Chile	4756	459.537	5.383	4.081	9.464	3.076
Chinese Taipei	4291	596.967	4.473	4.359	8.832	2.972
Croatia	3985	512.272	4.422	0.755	5.176	2.275
Cyprus	4125	523.627	7.200	0.890	8.091	2.844
Czech Republic	5202	531.037	6.058	0.257	6.315	2.513
Denmark	3710	555.111	9.843	0.523	10.365	3.220
England	4006	542.060	9.059	1.670	10.730	3.276
Finland	5015	539.141	3.892	2.302	6.194	2.489
France	4873	503.343	7.702	1.457	9.158	3.026
Georgia	3919	428.578	18.556	2.326	20.883	4.570
Germany	3948	530.795	5.253	0.902	6.156	2.481
Hong Kong SAR	3600	616.670	9.473	1.991	11.464	3.386
Hungary	5036	536.005	10.797	1.868	12.665	3.559
Indonesia	8319	394.241	15.327	2.728	18.056	4.249
Iran, Islamic Rep. of	7928	427.768	10.758	1.173	11.932	3.454
Ireland	4344	542.003	4.665	3.678	8.344	2.889
Italy	4373	503.387	7.163	0.633	7.796	2.792
Japan	4383	601.335	3.819	2.186	6.005	2.450
Jordan	7861	394.470	8.976	0.465	9.441	3.073
Kazakhstan	4702	539.582	32.419	0.921	33.340	5.774
Korea, Rep. of	4669	610.438	3.815	1.688	5.503	2.346
Kuwait	7296	337.682	21.996	2.311	24.307	4.930
Lithuania	4529	525.529	6.000	3.257	9.257	3.043
Morocco	10428	385.118	13.204	1.337	14.540	3.813
Netherlands	4515	521.792	2.791	0.962	3.754	1.937
New Zealand	6322	488.749	5.317	2.431	7.747	2.783
Northern Ireland	3116	566.094	9.539	1.619	11.158	3.340

Summary Statistics and Standard Errors for Proficiency in Geometric Shapes and Measures at the Fourth Grade (Continued)

Country	Sample Size	Geometric Shapes and Measures				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Norway (5)	4329	558.861	8.875	3.278	12.152	3.486
Oman	9105	430.235	6.086	2.453	8.540	2.922
Poland	4747	533.610	4.413	1.732	6.144	2.479
Portugal	4693	539.254	6.458	0.264	6.721	2.593
Qatar	5194	423.214	13.913	5.875	19.789	4.448
Russian Federation	4921	556.973	16.603	2.392	18.994	4.358
Saudi Arabia	4337	381.087	17.154	7.893	25.047	5.005
Serbia	4036	502.682	13.408	1.200	14.608	3.822
Singapore	6517	607.494	15.372	2.286	17.658	4.202
Slovak Republic	5773	490.892	5.616	0.928	6.544	2.558
Slovenia	4445	529.762	3.715	0.589	4.304	2.075
South Africa (5)	10932	359.388	12.802	0.547	13.349	3.654
Spain	7764	502.674	6.329	1.336	7.664	2.768
Sweden	4142	522.628	9.932	0.821	10.753	3.279
Turkey	6456	474.829	8.771	0.298	9.069	3.011
United Arab Emirates	21177	441.624	6.742	0.369	7.112	2.667
United States	10029	525.279	6.031	0.487	6.518	2.553
Benchmarking Participants						
Buenos Aires, Argentina	6435	403.053	9.436	0.846	10.282	3.207
Ontario, Canada	4574	526.497	5.859	2.761	8.620	2.936
Quebec, Canada	2798	542.435	20.152	0.677	20.829	4.564
Norway (4)	4164	499.186	5.633	1.425	7.058	2.657
Abu Dhabi, UAE	5001	411.588	24.683	1.420	26.103	5.109
Dubai, UAE	7453	502.647	2.652	1.038	3.690	1.921
Florida, US	2025	529.244	22.829	8.499	31.328	5.597

Summary Statistics and Standard Errors for Proficiency in Data Display at the Fourth Grade

Country	Sample Size	Data Display				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	532.578	9.354	3.846	13.199	3.633
Bahrain	8575	454.062	2.661	2.803	5.465	2.338
Belgium (Flemish)	5404	523.374	4.798	4.496	9.294	3.049
Bulgaria	4228	504.335	51.096	6.259	57.355	7.573
Canada	12283	528.472	6.279	0.950	7.228	2.689
Chile	4756	463.111	7.268	2.768	10.035	3.168
Chinese Taipei	4291	591.358	3.331	1.410	4.741	2.177
Croatia	3985	498.227	4.723	4.156	8.879	2.980
Cyprus	4125	507.391	10.474	4.127	14.600	3.821
Czech Republic	5202	525.064	6.970	1.802	8.772	2.962
Denmark	3710	525.954	7.320	4.669	11.988	3.462
England	4006	552.256	7.784	2.772	10.557	3.249
Finland	5015	541.644	5.594	5.554	11.148	3.339
France	4873	475.753	8.918	0.752	9.670	3.110
Georgia	3919	434.659	18.764	0.754	19.518	4.418
Germany	3948	534.797	6.024	0.759	6.783	2.604
Hong Kong SAR	3600	610.889	8.863	5.787	14.650	3.827
Hungary	5036	512.546	12.580	0.434	13.014	3.607
Indonesia	8319	385.118	13.832	3.627	17.459	4.178
Iran, Islamic Rep. of	7928	415.758	9.111	1.007	10.118	3.181
Ireland	4344	547.754	6.014	8.741	14.755	3.841
Italy	4373	497.977	6.712	1.947	8.659	2.943
Japan	4383	593.359	4.935	1.934	6.870	2.621
Jordan	7861	381.471	10.249	1.001	11.250	3.354
Kazakhstan	4702	524.071	26.742	0.854	27.596	5.253
Korea, Rep. of	4669	606.756	3.950	2.841	6.791	2.606
Kuwait	7296	345.105	24.933	4.313	29.246	5.408
Lithuania	4529	540.017	8.618	4.594	13.212	3.635
Morocco	10428	350.616	16.215	1.644	17.859	4.226
Netherlands	4515	538.839	4.413	6.960	11.373	3.372
New Zealand	6322	506.203	5.888	2.367	8.255	2.873
Northern Ireland	3116	566.730	9.039	5.057	14.096	3.754
Norway (5)	4329	565.844	7.481	1.237	8.717	2.952
Oman	9105	413.710	5.692	0.866	6.559	2.561

Summary Statistics and Standard Errors for Proficiency in Data Display at the Fourth Grade (Continued)

Country	Sample Size	Data Display				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Poland	4747	538.246	5.814	2.154	7.968	2.823
Portugal	4693	546.235	5.386	2.317	7.703	2.775
Qatar	5194	435.237	13.883	1.117	15.000	3.873
Russian Federation	4921	572.662	12.493	0.634	13.127	3.623
Saudi Arabia	4337	365.113	12.777	4.546	17.323	4.162
Serbia	4036	516.945	12.445	1.814	14.259	3.776
Singapore	6517	599.948	13.880	3.047	16.927	4.114
Slovak Republic	5773	496.056	8.627	5.847	14.475	3.805
Slovenia	4445	540.022	5.543	4.288	9.831	3.135
South Africa (5)	10932	380.579	11.780	3.945	15.725	3.965
Spain	7764	508.856	8.475	1.135	9.609	3.100
Sweden	4142	529.223	9.676	5.683	15.359	3.919
Turkey	6456	476.096	10.534	0.921	11.456	3.385
United Arab Emirates	21177	453.440	5.536	0.030	5.566	2.359
United States	10029	540.344	5.071	2.606	7.676	2.771
Benchmarking Participants						
Buenos Aires, Argentina	6435	410.788	10.496	0.968	11.464	3.386
Ontario, Canada	4574	535.797	6.359	0.451	6.810	2.610
Quebec, Canada	2798	541.230	19.117	6.137	25.254	5.025
Norway (4)	4164	495.169	6.841	1.565	8.406	2.899
Abu Dhabi, UAE	5001	423.176	21.837	1.531	23.369	4.834
Dubai, UAE	7453	516.651	2.235	0.762	2.997	1.731
Florida, US	2025	541.136	24.307	13.120	37.428	6.118

Summary Statistics and Standard Errors for Proficiency in Mathematics Knowing at the Fourth Grade

Country	Sample Size	Mathematics Knowing				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	509.001	10.369	1.945	12.315	3.509
Bahrain	8575	453.014	2.633	0.441	3.074	1.753
Belgium (Flemish)	5404	553.714	4.509	0.719	5.228	2.286
Bulgaria	4228	527.190	23.256	2.451	25.707	5.070
Canada	12283	505.351	5.489	0.390	5.880	2.425
Chile	4756	448.738	6.021	1.636	7.657	2.767
Chinese Taipei	4291	620.476	3.286	2.072	5.358	2.315
Croatia	3985	502.195	2.791	0.687	3.478	1.865
Cyprus	4125	518.982	6.296	1.587	7.883	2.808
Czech Republic	5202	519.059	5.177	0.952	6.129	2.476
Denmark	3710	535.910	8.090	2.538	10.627	3.260
England	4006	553.983	10.043	0.722	10.765	3.281
Finland	5015	530.097	4.007	0.970	4.978	2.231
France	4873	484.283	7.325	0.797	8.122	2.850
Georgia	3919	465.674	11.893	3.878	15.772	3.971
Germany	3948	523.914	4.522	0.596	5.117	2.262
Hong Kong SAR	3600	618.027	8.644	1.146	9.790	3.129
Hungary	5036	532.267	8.664	0.848	9.513	3.084
Indonesia	8319	394.766	15.458	2.269	17.726	4.210
Iran, Islamic Rep. of	7928	428.977	9.924	0.461	10.385	3.223
Ireland	4344	554.444	4.818	3.426	8.244	2.871
Italy	4373	510.896	6.652	1.608	8.260	2.874
Japan	4383	601.392	3.620	2.047	5.668	2.381
Jordan	7861	389.412	8.708	0.858	9.566	3.093
Kazakhstan	4702	545.632	19.243	0.182	19.425	4.407
Korea, Rep. of	4669	627.078	6.374	2.016	8.390	2.897
Kuwait	7296	354.123	20.128	0.228	20.356	4.512
Lithuania	4529	532.496	5.615	0.882	6.497	2.549
Morocco	10428	376.760	11.706	2.291	13.997	3.741
Netherlands	4515	520.531	2.877	0.323	3.200	1.789
New Zealand	6322	475.455	6.271	0.658	6.929	2.632
Northern Ireland	3116	581.651	13.913	1.252	15.165	3.894

Summary Statistics and Standard Errors for Proficiency in Mathematics Knowing at the Fourth Grade (Continued)

Country	Sample Size	Mathematics Knowing				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Norway (5)	4329	544.223	6.697	3.186	9.883	3.144
Oman	9105	422.256	6.603	0.841	7.444	2.728
Poland	4747	517.038	4.728	1.126	5.854	2.420
Portugal	4693	547.529	4.729	2.218	6.947	2.636
Qatar	5194	444.125	11.168	0.505	11.674	3.417
Russian Federation	4921	556.499	11.114	0.147	11.260	3.356
Saudi Arabia	4337	373.832	18.404	3.132	21.536	4.641
Serbia	4036	512.730	11.119	1.420	12.539	3.541
Singapore	6517	630.511	14.853	0.890	15.743	3.968
Slovak Republic	5773	490.692	4.757	0.986	5.743	2.396
Slovenia	4445	516.905	3.155	0.368	3.523	1.877
South Africa (5)	10932	377.569	12.337	0.742	13.079	3.616
Spain	7764	505.316	5.401	0.415	5.816	2.412
Sweden	4142	500.810	8.540	2.889	11.428	3.381
Turkey	6456	491.406	10.251	1.328	11.579	3.403
United Arab Emirates	21177	453.023	6.291	1.258	7.549	2.747
United States	10029	547.462	5.009	0.312	5.321	2.307
Benchmarking Participants						
Buenos Aires, Argentina	6435	432.045	7.197	1.144	8.341	2.888
Ontario, Canada	4574	504.923	5.806	0.374	6.180	2.486
Quebec, Canada	2798	541.835	15.931	2.815	18.746	4.330
Norway (4)	4164	479.479	5.992	0.672	6.664	2.582
Abu Dhabi, UAE	5001	417.859	23.227	2.361	25.587	5.058
Dubai, UAE	7453	513.624	2.636	1.172	3.807	1.951
Florida, US	2025	555.185	21.681	5.282	26.962	5.193

Summary Statistics and Standard Errors for Proficiency in Mathematics Applying at the Fourth Grade

Country	Sample Size	Mathematics Applying				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	521.341	7.657	1.391	9.048	3.008
Bahrain	8575	450.027	1.888	0.564	2.452	1.566
Belgium (Flemish)	5404	544.102	4.132	0.501	4.633	2.152
Bulgaria	4228	522.775	28.948	2.386	31.334	5.598
Canada	12283	510.107	5.155	0.187	5.341	2.311
Chile	4756	462.418	5.337	0.343	5.680	2.383
Chinese Taipei	4291	593.254	3.533	0.913	4.446	2.109
Croatia	3985	498.650	3.171	0.439	3.610	1.900
Cyprus	4125	528.734	7.312	0.811	8.122	2.850
Czech Republic	5202	528.127	5.088	0.448	5.537	2.353
Denmark	3710	537.878	6.952	0.668	7.620	2.760
England	4006	544.486	8.172	2.160	10.332	3.214
Finland	5015	536.064	3.703	0.630	4.333	2.082
France	4873	488.325	8.161	1.311	9.472	3.078
Georgia	3919	461.046	13.714	2.841	16.554	4.069
Germany	3948	515.154	4.046	0.890	4.936	2.222
Hong Kong SAR	3600	620.658	9.226	0.512	9.738	3.121
Hungary	5036	526.367	10.508	0.425	10.933	3.306
Indonesia	8319	397.075	12.539	0.358	12.896	3.591
Iran, Islamic Rep. of	7928	434.917	8.362	0.223	8.584	2.930
Ireland	4344	548.663	4.502	0.399	4.900	2.214
Italy	4373	504.010	5.586	0.714	6.299	2.510
Japan	4383	589.199	3.711	0.544	4.255	2.063
Jordan	7861	388.172	8.733	1.046	9.779	3.127
Kazakhstan	4702	540.891	22.856	1.215	24.071	4.906
Korea, Rep. of	4669	595.140	3.746	0.574	4.320	2.078
Kuwait	7296	347.885	21.050	1.522	22.572	4.751
Lithuania	4529	536.735	6.688	0.491	7.179	2.679
Morocco	10428	374.708	11.615	1.199	12.814	3.580
Netherlands	4515	530.504	2.431	0.610	3.041	1.744
New Zealand	6322	497.043	4.959	1.088	6.047	2.459
Northern Ireland	3116	575.489	8.716	1.299	10.016	3.165

Summary Statistics and Standard Errors for Proficiency in Mathematics Applying at the Fourth Grade (Continued)

Country	Sample Size	Mathematics Applying				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Norway (5)	4329	549.799	6.162	0.515	6.677	2.584
Oman	9105	427.889	5.417	0.516	5.933	2.436
Poland	4747	541.019	4.235	0.151	4.386	2.094
Portugal	4693	539.635	5.366	0.450	5.816	2.412
Qatar	5194	434.311	12.135	0.448	12.583	3.547
Russian Federation	4921	566.471	12.319	1.040	13.359	3.655
Saudi Arabia	4337	381.686	14.575	5.896	20.472	4.525
Serbia	4036	521.042	10.525	0.934	11.459	3.385
Singapore	6517	619.284	14.828	1.123	15.951	3.994
Slovak Republic	5773	496.660	5.675	0.568	6.243	2.499
Slovenia	4445	521.018	3.836	0.497	4.333	2.082
South Africa (5)	10932	376.868	10.967	0.906	11.873	3.446
Spain	7764	504.817	5.388	0.279	5.667	2.381
Sweden	4142	521.218	7.024	0.370	7.394	2.719
Turkey	6456	482.096	9.389	2.809	12.198	3.493
United Arab Emirates	21177	452.290	5.703	0.386	6.089	2.468
United States	10029	537.119	5.420	0.219	5.639	2.375
Benchmarking Participants						
Buenos Aires, Argentina	6435	427.029	7.473	1.279	8.752	2.958
Ontario, Canada	4574	513.186	5.163	0.209	5.373	2.318
Quebec, Canada	2798	532.671	16.086	0.689	16.775	4.096
Norway (4)	4164	495.041	4.779	1.323	6.101	2.470
Abu Dhabi, UAE	5001	421.761	21.586	1.571	23.157	4.812
Dubai, UAE	7453	510.185	2.290	1.018	3.309	1.819
Florida, US	2025	544.583	24.128	0.245	24.373	4.937

Summary Statistics and Standard Errors for Proficiency in Mathematics Reasoning at the Fourth Grade

Country	Sample Size	Mathematics Reasoning				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Australia	6057	523.485	7.387	1.522	8.909	2.985
Bahrain	8575	446.748	2.961	0.996	3.958	1.989
Belgium (Flemish)	5404	535.988	5.161	1.995	7.156	2.675
Bulgaria	4228	520.712	30.653	3.072	33.725	5.807
Canada	12283	520.995	5.350	0.202	5.551	2.356
Chile	4756	465.738	4.721	0.497	5.217	2.284
Chinese Taipei	4291	575.575	4.943	4.461	9.404	3.067
Croatia	3985	507.223	4.376	0.243	4.619	2.149
Cyprus	4125	518.624	6.733	3.079	9.811	3.132
Czech Republic	5202	543.721	6.378	2.917	9.295	3.049
Denmark	3710	547.563	6.104	4.426	10.530	3.245
England	4006	539.830	8.679	1.857	10.536	3.246
Finland	5015	540.178	5.143	4.491	9.634	3.104
France	4873	491.320	8.583	3.120	11.703	3.421
Georgia	3919	451.760	16.130	2.866	18.996	4.358
Germany	3948	535.048	4.266	1.351	5.617	2.370
Hong Kong SAR	3600	599.877	9.193	1.220	10.412	3.227
Hungary	5036	529.205	11.562	1.314	12.876	3.588
Indonesia	8319	396.601	10.518	1.650	12.168	3.488
Iran, Islamic Rep. of	7928	426.464	8.743	2.238	10.981	3.314
Ireland	4344	535.295	4.532	2.674	7.205	2.684
Italy	4373	502.583	5.671	5.052	10.723	3.275
Japan	4383	595.017	4.625	2.782	7.407	2.722
Jordan	7861	384.970	8.749	1.824	10.573	3.252
Kazakhstan	4702	553.002	20.464	1.054	21.519	4.639
Korea, Rep. of	4669	618.664	5.072	1.145	6.218	2.494
Kuwait	7296	331.736	24.268	0.861	25.129	5.013
Lithuania	4529	534.260	7.367	0.725	8.092	2.845
Morocco	10428	378.988	11.329	1.916	13.245	3.639
Netherlands	4515	542.924	4.007	2.989	6.996	2.645
New Zealand	6322	503.504	6.516	0.558	7.074	2.660
Northern Ireland	3116	549.654	8.320	2.735	11.055	3.325

Summary Statistics and Standard Errors for Proficiency in Mathematics Reasoning at the Fourth Grade (Continued)

Country	Sample Size	Mathematics Reasoning				
		Mean Proficiency	Jackknife Sampling Variance	Imputation Variance	Total Variance	Overall Standard Error
Norway (5)	4329	555.694	6.008	2.479	8.487	2.913
Oman	9105	419.599	5.289	0.351	5.641	2.375
Poland	4747	546.251	4.720	0.599	5.319	2.306
Portugal	4693	531.561	4.571	0.502	5.073	2.252
Qatar	5194	430.897	12.360	7.255	19.614	4.429
Russian Federation	4921	569.990	14.775	0.900	15.675	3.959
Saudi Arabia	4337	382.899	11.746	7.123	18.869	4.344
Serbia	4036	516.704	13.682	0.421	14.103	3.755
Singapore	6517	602.576	18.648	1.570	20.218	4.496
Slovak Republic	5773	515.329	6.702	1.520	8.222	2.867
Slovenia	4445	523.999	4.016	0.894	4.910	2.216
South Africa (5)	10932	368.932	11.454	0.702	12.156	3.487
Spain	7764	501.795	5.844	0.170	6.013	2.452
Sweden	4142	541.537	8.465	2.183	10.649	3.263
Turkey	6456	466.329	9.257	2.879	12.136	3.484
United Arab Emirates	21177	445.104	4.841	0.914	5.756	2.399
United States	10029	530.631	4.800	1.390	6.190	2.488
Benchmarking Participants						
Buenos Aires, Argentina	6435	436.828	8.232	3.136	11.368	3.372
Ontario, Canada	4574	524.363	5.822	0.914	6.736	2.595
Quebec, Canada	2798	536.463	18.720	5.716	24.437	4.943
Norway (4)	4164	506.305	5.330	3.695	9.025	3.004
Abu Dhabi, UAE	5001	413.748	18.339	1.063	19.402	4.405
Dubai, UAE	7453	507.139	2.035	0.777	2.812	1.677
Florida, US	2025	534.291	27.655	10.492	38.146	6.176