

TIMSS 2011

TIMSS 2011 Target Population Sizes

Marc Joncas

Exhibits 1 and 2 show the number of schools and students in each participant's target population¹ and sample, as well as an estimate of the student population size based on the sample data. The target population figures are derived from the sampling frame used to select the TIMSS 2011 samples, while the sample figures refer to the number of sampled schools and students that participated in the assessments. The sample figures were computed using sampling weights (see [Sample Design in TIMSS and PIRLS](#)). The student population size based on the sampling frame did not take into account the portion of the population excluded within schools and made no adjustment for changes in the population between the date when the information in the sampling frame was collected and the date of the TIMSS 2011 data collection—usually a 2-year interval. Nevertheless, a comparison of the two estimates of population size can be seen as a check on the sampling procedure. In most cases, the population size estimated from the sample closely matched the population size from the sampling frame.

1 After school level exclusions.

Exhibit 1: Population and Sample Sizes - TIMSS 2011 - Fourth Grade

Country	Population		Sample		
	Schools	Students	Schools	Students	Student Population Size Estimated from Sample
Armenia	1,094	30,259	150	5,146	30,440
Australia	6,585	263,139	280	6,146	257,154
Austria	3,145	82,758	158	4,668	81,438
Azerbaijan	3,940	118,162	169	4,882	109,518
Bahrain	174	14,996	159	4,083	14,568
Belgium (Flemish)	2,248	62,936	142	4,849	64,731
Chile	6,181	256,497	200	5,585	248,728
Chinese Taipei	2,640	274,747	150	4,284	275,522
Croatia	797	44,527	152	4,584	40,199
Czech Republic	3,423	87,377	177	4,578	87,938
Denmark	0	66,328	216	3,987	61,960
England	15,217	586,139	125	3,397	536,579
Finland	2,505	56,676	145	4,638	57,027
Georgia	1,839	41,194	173	4,799	39,699

Exhibit 1: Population and Sample Sizes - TIMSS 2011 - Fourth Grade (Continued)

Country	Population		Sample		
	Schools	Students	Schools	Students	Student Population Size Estimated from Sample
Germany	18,691	771,977	197	3,995	751,027
Hong Kong SAR	522	57,922	136	3,957	52,215
Hungary	2,930	94,868	149	5,204	91,650
Iran, Islamic Rep. Of	39,401	1,086,140	244	5,760	1,044,384
Ireland	3,006	61,001	150	4,560	60,565
Italy	7,652	561,377	202	4,200	540,774
Japan	19,986	1,155,398	149	4,411	1,148,318
Kazakhstan	6,344	223,618	149	4,382	231,031
Korea, Republic of	5,329	594,046	150	4,334	583,839
Kuwait	246	26,663	148	4,142	25,491
Lithuania	908	30,705	154	4,688	26,909
Malta	99	4,083	96	3,607	3,933
Morocco	17,390	602,798	286	7,841	692,172
Netherlands	6,516	193,837	128	3,229	176,175
New Zealand	1,741	56,316	180	5,572	53,622
Northern Ireland	810	23,197	136	3,571	19,858
Norway	2,353	60,598	119	3,121	59,354
Oman	570	46,248	327	10,411	45,207
Poland	12,203	350,891	150	5,027	345,641
Portugal	4,920	125,352	147	4,042	117,529
Qatar	175	13,900	166	4,117	13,946
Romania	8,467	208,025	148	4,673	217,643
Russian Federation	37,000	1,224,915	202	4,467	1,186,448
Saudi Arabia	11,394	401,006	171	4,515	412,250
Serbia	2,533	66,913	156	4,379	66,321
Singapore	176	48,056	176	6,368	48,213
Slovak Republic	2,009	52,102	197	5,616	47,105
Slovenia	654	17,885	195	4,492	17,374
Spain	12,587	445,591	151	4,183	439,273
Sweden	3,404	92,659	152	4,663	91,820
Thailand	28,600	830,536	168	4,448	795,938
Tunisia	3,945	171,314	222	4,912	170,942
Turkey	26,247	1,301,460	257	7,479	1,264,008
United Arab Emirates	686	60,806	459	14,720	58,699
United States	72,309	4,056,740	369	12,569	3,838,144
Yemen	12,271	505,498	216	8,058	512,782
Sixth Grade Participants					
Botswana	781	48,897	149	4,198	42,834
Honduras	10,033	165,368	147	3,919	180,669
Yemen	10,787	394,269	146	4,929	376,436

Exhibit 1: Population and Sample Sizes - TIMSS 2011 - Fourth Grade (Continued)

Country	Population		Sample		
	Schools	Students	Schools	Students	Student Population Size Estimated from Sample
Benchmarking Participants					
Alberta Province, Canada	1,061	40,147	143	3,645	37,042
Ontario Province, Canada	3,735	138,849	146	4,570	138,829
Quebec Province, Canada	1,751	75,512	190	4,235	71,636
Abu Dhabi, United Arab Emirates	273	23,659	164	4,164	22,542
Dubai, United Arab Emirates	151	15,801	139	6,151	15,735
Florida, United States	2,051	204,131	77	2,661	186,289
North Carolina, United States	1,392	116,706	46	1,792	110,780

Exhibit 2: Population and Sample Sizes - TIMSS 2011 - Eighth Grade

Country	Population		Sample		
	Schools	Students	Schools	Students	Student Population Size Estimated from Sample
Armenia	1,151	36,669	153	5,846	36,181
Australia	2,420	274,837	277	7,556	256,928
Bahrain	97	13,993	95	4,640	12,763
Chile	5,351	268,750	193	5,835	255,573
Chinese Taipei	915	317,906	150	5,042	307,760
England	3,742	599,447	118	3,842	609,698
Finland	715	64,026	145	4,266	58,409
Georgia	1,914	49,618	172	4,563	46,382
Ghana	9,166	424,132	161	7,323	395,554
Hong Kong SAR	447	76,608	117	4,015	71,391
Hungary	2,865	105,352	146	5,178	91,111
Indonesia	36,234	3,178,536	153	5,795	3,710,311
Iran, Islamic Rep. Of	27,463	1,153,363	238	6,029	1,036,120
Israel	864	95,967	151	4,699	99,004
Italy	5,935	568,629	197	3,979	592,244
Japan	10,629	1,167,576	138	4,414	1,190,155
Jordan	2,065	132,050	230	7,694	119,209
Kazakhstan	5,977	249,718	147	4,390	217,158
Korea, Republic of	2,926	672,415	150	5,166	636,597
Lebanon	1,617	65,434	147	3,974	58,462
Lithuania	846	36,323	141	4,747	33,703
Macedonia, Republic of	326	24,387	150	4,062	23,947
Malaysia	1,892	435,943	180	5,733	399,905
Morocco	2,214	442,159	279	8,986	384,456
New Zealand	409	59,378	158	5,336	57,192

Exhibit 2: Population and Sample Sizes - TIMSS 2011 - Eighth Grade (Continued)

Country	Population		Sample		
	Schools	Students	Schools	Students	Student Population Size Estimated from Sample
Norway	1,162	63,024	134	3,862	62,806
Oman	678	49,074	323	9,542	43,633
Palestinian Natl Auth.	1,298	90,543	201	7,812	88,778
Qatar	113	11,999	109	4,422	12,063
Romania	6,325	235,656	147	5,523	226,998
Russian Federation	37,000	1,250,149	210	4,893	1,209,095
Saudi Arabia	6,395	370,250	153	4,344	354,451
Singapore	165	50,205	165	5,927	50,399
Slovenia	449	18,065	186	4,415	17,714
Sweden	1,519	113,698	153	5,573	99,634
Syrian Arab Republic	4,909	342,627	148	4,413	338,008
Thailand	10,210	936,796	172	6,124	848,262
Tunisia	1,018	152,470	207	5,128	144,790
Turkey	17,621	1,198,697	239	6,928	1,180,443
Ukraine	15,522	446,084	148	3,378	378,864
United Arab Emirates	596	52,229	458	14,089	48,982
United States	46,312	4,012,076	501	10,477	3,564,684
Ninth Grade Participants					
Botswana	218	41,078	150	5,400	38,467
Honduras	1,896	95,792	155	4,418	77,617
South Africa	9,504	988,632	285	11,969	953,283
Benchmarking Participants					
Alberta Province, Canada	652	41,986	145	4,799	39,020
Ontario Province, Canada	2,940	157,788	143	4,756	144,746
Quebec Province, Canada	598	98,324	189	6,149	83,085
Abu Dhabi, United Arab Emirates	233	19,892	166	4,373	18,789
Dubai, United Arab Emirates	143	13,453	130	5,571	13,107
Alabama, United States	506	58,532	55	2,113	58,442
California, United States	2,709	458,811	82	2,614	452,129
Colorado, United States	492	57,972	53	2,167	51,193
Connecticut, United States	279	42,547	62	2,099	41,640
Florida, United States	1,124	196,570	60	1,712	158,790
Indiana, United States	474	80,568	56	2,260	71,711
Massachusetts, United States	479	72,937	56	2,075	66,541
Minnesota, United States	682	61,912	55	2,500	58,951
North Carolina, United States	700	110,648	59	2,103	101,095