

Appendix D.1: Percentages of Students with Achievement Too Low for Estimation*

Country	Combined TIMSS and TIMSS Numeracy Percentage of Students with Achievement Too Low for Estimation	TIMSS Percentage of Students with Achievement Too Low for Estimation	TIMSS Numeracy Percentage of Students with Achievement Too Low for Estimation	TIMSS Average Percent Correct	TIMSS Numeracy Average Percent Correct
Australia	3 (0.3)	3 (0.3)	--	51 (0.7)	--
Bahrain	5 (0.4)	10 (0.7)	1 (0.2)	36 (0.4)	55 (0.4)
Belgium (Flemish)	1 (0.1)	1 (0.1)	--	58 (0.6)	--
Bulgaria	4 (0.6)	4 (0.6)	--	53 (1.3)	--
Canada	3 (0.4)	3 (0.4)	--	49 (0.5)	--
Chile	7 (0.6)	7 (0.6)	--	37 (0.5)	--
Chinese Taipei	0 (0.1)	0 (0.1)	--	70 (0.4)	--
Croatia	3 (0.3)	3 (0.3)	--	47 (0.5)	--
Cyprus	3 (0.3)	3 (0.3)	--	53 (0.6)	--
Czech Republic	2 (0.3)	2 (0.3)	--	53 (0.6)	--
Denmark	2 (0.3)	2 (0.3)	--	56 (0.7)	--
England	2 (0.3)	2 (0.3)	--	58 (0.7)	--
Finland	1 (0.2)	1 (0.2)	--	55 (0.5)	--
France	4 (0.4)	4 (0.4)	--	43 (0.7)	--
Georgia	8 (0.7)	8 (0.7)	--	39 (0.8)	--
Germany	2 (0.3)	2 (0.3)	--	52 (0.5)	--
Hong Kong SAR	0 (0.1)	0 (0.1)	--	75 (0.7)	--
Hungary	4 (0.5)	4 (0.5)	--	55 (0.7)	--
Indonesia	11 (0.7)	19 (1.2)	2 (0.4)	26 (0.6)	44 (0.7)
Iran, Islamic Rep. of	9 (0.8)	14 (1.2)	3 (0.6)	32 (0.6)	53 (0.6)
Ireland	1 (0.2)	1 (0.2)	--	59 (0.6)	--
Italy	3 (0.3)	3 (0.3)	--	48 (0.6)	--
Japan	0 (0.1)	0 (0.1)	--	70 (0.4)	--
Jordan	5 (0.4)	--	5 (0.4)	--	43 (0.6)
Kazakhstan	1 (0.2)	1 (0.2)	--	57 (1.2)	--
Korea, Rep. of	0 (0.1)	0 (0.1)	--	73 (0.5)	--
ψ Kuwait	20 (0.9)	32 (1.3)	8 (0.7)	21 (0.6)	35 (0.9)
Lithuania	1 (0.2)	1 (0.2)	--	56 (0.7)	--
Morocco	12 (0.5)	21 (0.8)	4 (0.3)	25 (0.6)	40 (0.7)
Netherlands	1 (0.2)	1 (0.2)	--	53 (0.5)	--
New Zealand	6 (0.4)	6 (0.4)	--	45 (0.5)	--
Northern Ireland	2 (0.3)	2 (0.3)	--	64 (0.7)	--
Norway (5)	1 (0.2)	1 (0.2)	--	59 (0.7)	--
Oman	14 (0.5)	14 (0.5)	--	33 (0.5)	--
Poland	2 (0.2)	2 (0.2)	--	55 (0.6)	--
Portugal	1 (0.2)	1 (0.2)	--	57 (0.6)	--
Qatar	13 (0.7)	13 (0.7)	--	35 (0.7)	--
Russian Federation	1 (0.2)	1 (0.2)	--	63 (0.9)	--
ψ Saudi Arabia	22 (1.0)	22 (1.0)	--	25 (0.6)	--
Serbia	4 (0.8)	4 (0.8)	--	51 (0.8)	--
Singapore	1 (0.1)	1 (0.1)	--	74 (0.8)	--
Slovak Republic	5 (0.4)	5 (0.4)	--	46 (0.5)	--
Slovenia	2 (0.3)	2 (0.3)	--	51 (0.5)	--
South Africa (5)	3 (0.4)	--	3 (0.4)	--	39 (0.7)
Spain	3 (0.4)	3 (0.4)	--	47 (0.6)	--
Sweden	2 (0.4)	2 (0.4)	--	51 (0.7)	--
Turkey	7 (0.5)	7 (0.5)	--	44 (0.7)	--
United Arab Emirates	12 (0.4)	12 (0.4)	--	38 (0.5)	--
United States	2 (0.2)	2 (0.2)	--	57 (0.5)	--

* Students were considered to have achievement too low for estimation if their performance on the assessment was no better than could be achieved by simply guessing on the multiple-choice assessment items. However, such students were assigned scale scores (plausible values) by the achievement scaling procedure, despite concerns about their reliability.

ψ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

Appendix D.1: Percentages of Students with Achievement Too Low for Estimation* (Continued)

Country	Combined TIMSS and TIMSS Numeracy Percentage of Students with Achievement Too Low for Estimation	TIMSS Percentage of Students with Achievement Too Low for Estimation	TIMSS Numeracy Percentage of Students with Achievement Too Low for Estimation	TIMSS Average Percent Correct	TIMSS Numeracy Average Percent Correct
Benchmarking Participants					
Buenos Aires, Argentina	10 (0.6)	19 (1.0)	2 (0.3)	28 (0.6)	52 (0.7)
Ontario, Canada	3 (0.4)	3 (0.4)	--	50 (0.6)	--
Quebec, Canada	1 (0.2)	1 (0.2)	--	55 (1.1)	--
Norway (4)	4 (0.5)	4 (0.5)	--	45 (0.5)	--
ψ Abu Dhabi, UAE	18 (0.9)	18 (0.9)	--	32 (0.9)	--
Dubai, UAE	5 (0.3)	5 (0.3)	--	50 (0.4)	--
Florida, US	2 (0.3)	2 (0.3)	--	58 (1.2)	--

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015