

Appendix E.1: Average Percent Correct in the Mathematics Content and Cognitive Domains

Country	Overall Mathematics	Mathematics Content Domains			Mathematics Cognitive Domains		
		Number	Geometric Shapes and Measures	Data Display	Knowing	Applying	Reasoning
Australia	51 (0.7)	47 (0.8)	53 (0.7)	63 (0.8)	56 (0.7)	50 (0.7)	46 (0.7)
Bahrain	36 (0.4)	35 (0.4)	36 (0.4)	44 (0.7)	44 (0.5)	33 (0.4)	29 (0.5)
Belgium (Flemish)	58 (0.6)	56 (0.7)	60 (0.6)	61 (0.6)	66 (0.6)	56 (0.6)	48 (0.7)
Bulgaria	53 (1.3)	53 (1.2)	52 (1.3)	56 (1.6)	60 (1.3)	51 (1.3)	44 (1.3)
Canada	49 (0.5)	45 (0.6)	51 (0.6)	62 (0.6)	55 (0.6)	47 (0.6)	45 (0.6)
Chile	37 (0.5)	34 (0.5)	38 (0.5)	47 (0.7)	42 (0.6)	35 (0.6)	33 (0.5)
Chinese Taipei	70 (0.4)	71 (0.5)	67 (0.5)	77 (0.5)	80 (0.4)	68 (0.5)	58 (0.6)
Croatia	47 (0.5)	44 (0.5)	48 (0.5)	54 (0.7)	53 (0.5)	43 (0.5)	41 (0.6)
Cyprus	53 (0.6)	52 (0.7)	52 (0.6)	57 (0.8)	58 (0.6)	52 (0.7)	45 (0.6)
Czech Republic	53 (0.6)	51 (0.7)	53 (0.7)	61 (0.7)	58 (0.6)	51 (0.7)	50 (0.7)
Denmark	56 (0.7)	53 (0.8)	59 (0.7)	62 (0.8)	62 (0.8)	54 (0.7)	51 (0.8)
England	58 (0.7)	56 (0.8)	57 (0.7)	68 (0.7)	66 (0.7)	56 (0.7)	50 (0.8)
Finland	55 (0.5)	52 (0.5)	55 (0.6)	65 (0.6)	60 (0.5)	53 (0.5)	50 (0.7)
France	43 (0.7)	40 (0.7)	47 (0.7)	49 (0.8)	50 (0.7)	41 (0.7)	38 (0.7)
Georgia	39 (0.8)	41 (0.8)	34 (0.8)	41 (0.9)	45 (0.9)	37 (0.8)	31 (0.8)
Germany	52 (0.5)	48 (0.6)	53 (0.6)	64 (0.7)	58 (0.6)	48 (0.6)	48 (0.6)
Hong Kong SAR	75 (0.7)	74 (0.8)	73 (0.7)	81 (0.7)	80 (0.6)	76 (0.7)	64 (0.9)
Hungary	55 (0.7)	54 (0.7)	55 (0.8)	58 (0.9)	62 (0.7)	52 (0.8)	48 (0.8)
Indonesia	26 (0.6)	24 (0.6)	28 (0.7)	31 (0.9)	32 (0.8)	24 (0.6)	20 (0.5)
Iran, Islamic Rep. of	32 (0.6)	31 (0.6)	34 (0.7)	34 (0.8)	39 (0.7)	31 (0.6)	25 (0.6)
Ireland	59 (0.6)	58 (0.6)	57 (0.6)	67 (0.7)	67 (0.6)	57 (0.6)	48 (0.6)
Italy	48 (0.6)	47 (0.6)	47 (0.7)	54 (0.7)	56 (0.7)	45 (0.6)	40 (0.6)
Japan	70 (0.4)	69 (0.5)	69 (0.5)	78 (0.5)	76 (0.4)	67 (0.5)	64 (0.6)
Kazakhstan	57 (1.2)	58 (1.1)	55 (1.4)	60 (1.1)	63 (1.1)	55 (1.2)	52 (1.3)
Korea, Rep. of	73 (0.5)	73 (0.5)	70 (0.4)	81 (0.5)	81 (0.5)	69 (0.5)	69 (0.5)
ψ Kuwait	21 (0.6)	21 (0.7)	21 (0.6)	24 (0.9)	27 (0.9)	19 (0.6)	16 (0.5)
Lithuania	56 (0.7)	55 (0.7)	53 (0.7)	65 (0.7)	61 (0.7)	54 (0.7)	48 (0.8)
Morocco	25 (0.6)	23 (0.6)	28 (0.7)	26 (0.8)	32 (0.7)	22 (0.6)	20 (0.6)
Netherlands	53 (0.5)	52 (0.5)	50 (0.5)	64 (0.7)	57 (0.5)	51 (0.5)	50 (0.6)
New Zealand	45 (0.5)	42 (0.5)	45 (0.6)	57 (0.6)	48 (0.5)	43 (0.6)	42 (0.6)
Northern Ireland	64 (0.7)	64 (0.8)	63 (0.7)	71 (0.7)	71 (0.8)	64 (0.7)	52 (0.8)
Norway (5)	59 (0.7)	55 (0.7)	59 (0.8)	71 (0.7)	63 (0.7)	57 (0.7)	54 (0.8)
Oman	33 (0.5)	31 (0.5)	35 (0.5)	38 (0.6)	39 (0.5)	32 (0.5)	26 (0.4)
Poland	55 (0.6)	53 (0.6)	53 (0.5)	65 (0.7)	57 (0.6)	55 (0.6)	51 (0.6)
Portugal	57 (0.6)	55 (0.6)	56 (0.7)	67 (0.6)	65 (0.6)	55 (0.7)	47 (0.6)
Qatar	35 (0.7)	34 (0.7)	33 (0.7)	42 (0.9)	42 (0.7)	32 (0.7)	28 (0.7)
Russian Federation	63 (0.9)	63 (0.9)	59 (1.0)	72 (0.9)	67 (0.8)	62 (0.9)	57 (1.0)
ψ Saudi Arabia	25 (0.6)	23 (0.6)	27 (0.7)	28 (0.6)	30 (0.7)	23 (0.6)	20 (0.6)
Serbia	51 (0.8)	51 (0.8)	48 (0.8)	59 (0.9)	56 (0.8)	50 (0.8)	45 (0.8)
Singapore	74 (0.8)	77 (0.9)	70 (0.8)	78 (0.8)	81 (0.7)	74 (0.9)	65 (1.0)
Slovak Republic	46 (0.5)	45 (0.6)	44 (0.6)	54 (0.7)	50 (0.5)	44 (0.6)	44 (0.6)
Slovenia	51 (0.5)	47 (0.5)	53 (0.6)	65 (0.6)	56 (0.5)	50 (0.6)	45 (0.5)
Spain	47 (0.6)	45 (0.6)	46 (0.8)	58 (0.8)	55 (0.6)	45 (0.6)	40 (0.7)
Sweden	51 (0.7)	48 (0.7)	51 (0.8)	63 (0.8)	53 (0.7)	49 (0.7)	51 (0.8)
Turkey	44 (0.7)	43 (0.7)	43 (0.6)	51 (0.8)	53 (0.7)	42 (0.7)	34 (0.6)
United Arab Emirates	38 (0.5)	37 (0.5)	37 (0.6)	46 (0.6)	45 (0.6)	36 (0.5)	31 (0.4)
United States	57 (0.5)	57 (0.6)	52 (0.6)	65 (0.6)	65 (0.6)	54 (0.6)	47 (0.6)
International Avg.	50 (0.1)	49 (0.1)	50 (0.1)	57 (0.1)	56 (0.1)	48 (0.1)	44 (0.1)

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

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 E.1: Average Percent Correct in the Mathematics Content and Cognitive Domains (Continued)

Country	Overall Mathematics	Mathematics Content Domains			Mathematics Cognitive Domains		
		Number	Geometric Shapes and Measures	Data Display	Knowing	Applying	Reasoning
Benchmarking Participants							
Buenos Aires, Argentina	28 (0.6)	29 (0.6)	26 (0.6)	30 (1.0)	35 (0.7)	25 (0.6)	23 (0.7)
Ontario, Canada	50 (0.6)	44 (0.7)	53 (0.7)	64 (0.7)	54 (0.7)	48 (0.7)	46 (0.6)
Quebec, Canada	55 (1.1)	53 (1.1)	56 (1.2)	65 (1.0)	63 (1.0)	52 (1.1)	49 (1.3)
Norway (4)	45 (0.5)	41 (0.5)	47 (0.6)	54 (0.8)	48 (0.6)	44 (0.6)	41 (0.6)
ψ Abu Dhabi, UAE	32 (0.9)	31 (0.9)	32 (1.0)	40 (1.1)	38 (1.0)	31 (1.0)	26 (0.8)
Dubai, UAE	50 (0.4)	49 (0.4)	48 (0.4)	59 (0.5)	57 (0.4)	48 (0.4)	42 (0.4)
Florida, US	58 (1.2)	60 (1.3)	53 (1.2)	65 (1.1)	67 (1.1)	56 (1.3)	48 (1.3)

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