

	eTIMSS		paperTIMSS	
Country	Percentage of Students with Achievement Too Low for Estimation	Average Percent Correct	Percentage of Students with Achievement Too Low for Estimation	Average Percent Correct
Albania			3 (0.5)	47 (0.7)
Armenia			4 (0.4)	41 (0.6)
Australia			2 (0.3)	55 (0.5)
Austria	1 (0.2)	51 (0.5)		
Azerbaijan			8 (0.6)	36 (0.5)
Bahrain			4 (0.4)	48 (0.6)
Belgium (Flemish)  Bosnia and Herzegovina			2 (0.2) 5 (0.4)	48 (0.4) 40 (0.5)
Bulgaria			4 (0.6)	54 (1.0)
Canada	2 (0.2)	52 (0.3)		
Chile	5 (0.5)	40 (0.5)		
Chinese Taipei	0 (0.1)	60 (0.3)		
Croatia	1 (0.2)	51 (0.4)		
Cyprus			2 (0.3)	50 (0.6)
Czech Republic	1 (0.2)	54 (0.4)	<u> </u>	
Denmark	1 (0.3)	51 (0.4)		
England	1 (0.2)	55 (0.5)	<del></del>	
Finland	1 (0.2)	59 (0.5)		
France	4 (0.4)	45 (0.6)		
Georgia	6 (0.7)	38 (0.6)		
Germany	2 (0.3)	51 (0.5) 54 (0.6)		
Hong Kong SAR	1 (0.2)	53 (0.5)		
Hungary Iran, Islamic Rep. of			9 (0.7)	38 (0.7)
Ireland			2 (0.4)	54 (0.7)
Italy	2 (0.2)	49 (0.6)		
Japan			1 (0.1)	61 (0.4)
Kazakhstan			2 (0.3)	47 (0.6)
Korea, Rep. of	0 (0.1)	66 (0.4)		'
Kosovo			9 (0.7)	33 (0.5)
Kuwait			14 (0.9)	33 (0.9)
Latvia			0 (0.2)	57 (0.5)
Lithuania	1 (0.2)	55 (0.5)		
Malta	3 (0.3)	47 (0.3)		
Montenegro			8 (0.4)	39 (0.4)
Ψ Morocco			17 (0.9)	30 (0.8)
Netherlands	2 (0.3)	50 (0.6)	2 (0.2)	40 (0.4)
New Zealand North Macedonia			3 (0.3) 11 (0.9)	49 (0.4) 36 (1.0)
Northern Ireland			2 (0.3)	52 (0.4)
Norway (5)	1 (0.2)	55 (0.5)	2 (0.3)	JZ (0.4)
Oman			10 (0.6)	39 (0.7)
<sup>Ж</sup> Pakistan			31 (3.5)	21 (1.1)
<sup>™</sup> Philippines			34 (1.4)	20 (0.5)
Poland			1 (0.2)	55 (0.5)
Portugal	2 (0.2)	47 (0.4)		′
Qatar	8 (0.8)	39 (0.7)	<u> </u>	
Russian Federation	0 (0.1)	62 (0.7)		
Saudi Arabia			12 (0.7)	34 (0.5)
Serbia			3 (0.6)	52 (0.7)
Singapore	1 (0.1)	68 (0.7)		
Slovak Republic	2 (0.4)	52 (0.7)		 2F (0.0)
South Africa (5)	1 (0.2)	40 (0.4)	28 (1.0)	25 (0.6)
Spain Sweden	1 (0.2) 1 (0.2)	49 (0.4) 55 (0.7)		
Turkey (5)	3 (0.4)	55 (0.7)		
United Arab Emirates	7 (0.2)	44 (0.3)		
United States	2 (0.2)	55 (0.5)		
	2 (0.2)	00 (0.0)		
Ontario Canada	2 (0.2)	E2 (0.6)		
Ontario, Canada  Quebec, Canada	2 (0.3) 1 (0.2)	52 (0.6) 51 (0.5)		
Moscow City, Russian Fed.	0 (0.1)	68 (0.5)		
Madrid, Spain	1 (0.2)	51 (0.4)		
Abu Dhabi, UAE	14 (0.5)	35 (0.4)		
Dubai, UAE	1 (0.1)	57 (0.3)		

<sup>\*</sup> 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. \$\Psi\$ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.



Ж Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 25%.

<sup>()</sup> Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

A dash (-) indicates comparable data not available.