

**Exhibit 15.9:** Relationship Between the TIMSS 2015 *Students Confident in Mathematics* Scale, Fourth Grade, and TIMSS 2015 Mathematics Achievement

Country	Pearson's Correlation with Mathematics Achievement		Variance in Mathematics Achievement Accounted for by Difference Between Regions of the Scale ( $\eta^2$ )
	(r)	( $r^2$ )	
Australia	0.44	0.19	0.18
Bahrain	0.37	0.14	0.13
Belgium (Flemish)	0.39	0.15	0.14
Bulgaria	0.40	0.16	0.16
Canada	0.44	0.19	0.19
Chile	0.41	0.17	0.17
Chinese Taipei	0.44	0.19	0.20
Croatia	0.45	0.20	0.19
Cyprus	0.44	0.19	0.18
Czech Republic	0.42	0.18	0.18
Denmark	0.42	0.17	0.17
England	0.32	0.10	0.12
Finland	0.43	0.19	0.17
France	0.40	0.16	0.16
Georgia	0.36	0.13	0.15
Germany	0.42	0.18	0.18
Hong Kong SAR	0.41	0.17	0.18
Hungary	0.49	0.24	0.25
Indonesia	0.29	0.09	0.09
Iran, Islamic Rep. of	0.30	0.09	0.10
Ireland	0.43	0.18	0.18
Italy	0.32	0.10	0.10
Japan	0.44	0.19	0.19
Jordan	0.38	0.14	0.15
Kazakhstan	0.22	0.05	0.05
Korea, Rep. of	0.54	0.29	0.27
Kuwait	0.26	0.07	0.07
Lithuania	0.46	0.21	0.21
Morocco	0.32	0.10	0.10

**Exhibit 15.9: Relationship Between the TIMSS 2015 *Students Confident in Mathematics* Scale, Fourth Grade, and TIMSS 2015 Mathematics Achievement (Continued)**

Country	Pearson's Correlation with Mathematics Achievement		Variance in Mathematics Achievement Accounted for by Difference Between Regions of the Scale ( $\eta^2$ )
	(r)	( $r^2$ )	
Netherlands	0.52	0.27	0.28
New Zealand	0.37	0.14	0.13
Northern Ireland	0.40	0.16	0.17
Norway (5)	0.42	0.18	0.16
Oman	0.31	0.10	0.10
Poland	0.47	0.22	0.22
Portugal	0.49	0.24	0.25
Qatar	0.28	0.08	0.10
Russian Federation	0.39	0.15	0.16
Saudi Arabia	0.28	0.08	0.09
Serbia	0.44	0.19	0.19
Singapore	0.47	0.22	0.22
Slovak Republic	0.40	0.16	0.15
Slovenia	0.46	0.21	0.21
South Africa (5)	0.38	0.15	0.15
Spain	0.44	0.19	0.21
Sweden	0.38	0.14	0.13
Turkey	0.47	0.22	0.20
United Arab Emirates	0.32	0.11	0.11
United States	0.43	0.18	0.19
<b>International Median</b>	<b>0.41</b>	<b>0.17</b>	<b>0.17</b>
<b>Benchmarking Participants</b>			
Buenos Aires, Argentina	0.33	0.11	0.12
Ontario, Canada	0.45	0.20	0.20
Quebec, Canada	0.43	0.19	0.17
Norway (4)	0.39	0.15	0.14
Abu Dhabi, UAE	0.37	0.14	0.14
Dubai, UAE	0.30	0.09	0.10
Florida, US	0.43	0.18	0.20