





Equivalence Table of Raw and Transformed Scale Scores for the TIMSS 2015 Safe and Orderly School - Teachers' Reports Scale, Eighth Grade

Raw Score	Transformed Scale Score	Cutpoint
0	4.21352	
1	5.50950	
2	6.20806	
3	6.73583	
4	7.18910	7.2
5	7.60560	
6	8.00514	
7	8.40086	
8	8.79988	
9	9.21200	
10	9.64573	
11	10.11020	
12	10.61839	10.6
13	11.18541	
14	11.83862	
15	12.65468	
16	14.06211	

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

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2015 Safe and Orderly School - Teachers' Reports Scale, Eighth Grade

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item							
			BTBC07A	BTBC07B	BTBC07C	BTBC07D	BTBC07E	BTBC07F	BTBC07G	BTBC07H
Australia	0.90	60	0.65	0.75	0.72	0.86	0.87	0.81	0.72	0.78
Bahrain	0.86	52	0.55	0.63	0.68	0.74	0.80	0.77	0.75	0.80
Botswana (9)	0.84	47	0.67	0.74	0.67	0.75	0.77	0.69	0.55	0.64
Canada	0.87	53	0.58	0.58	0.64	0.83	0.82	0.81	0.74	0.76
Chile	0.85	51	0.44	0.64	0.74	0.82	0.80	0.72	0.72	0.77
Chinese Taipei	0.89	57	0.70	0.78	0.71	0.79	0.77	0.75	0.78	0.78
Egypt	0.87	53	0.60	0.67	0.70	0.74	0.73	0.78	0.80	0.76
England	0.86	51	0.49	0.62	0.59	0.83	0.82	0.81	0.70	0.79
Georgia	0.78	41	0.60	0.67	0.75	0.63	0.68	0.53	0.57	0.65
Hong Kong SAR	0.81	44	0.48	0.59	0.58	0.74	0.78	0.75	0.65	0.65
Hungary	0.87	52	0.54	0.69	0.75	0.80	0.80	0.77	0.66	0.73
Iran, Islamic Rep. of	0.84	47	0.58	0.68	0.69	0.75	0.71	0.71	0.71	0.65
Ireland	0.86	51	0.71	0.62	0.63	0.84	0.84	0.79	0.53	0.68
Israel	0.84	48	0.49	0.62	0.60	0.79	0.77	0.76	0.72	0.74
Italy	0.85	49	0.68	0.76	0.67	0.72	0.73	0.72	0.65	0.65
Japan	0.84	48	0.65	0.70	0.62	0.79	0.76	0.78	0.56	0.67
Jordan	0.88	54	0.60	0.70	0.75	0.77	0.74	0.74	0.77	0.77
Kazakhstan	0.86	51	0.59	0.68	0.68	0.78	0.73	0.72	0.75	0.80
Korea, Rep. of	0.88	55	0.68	0.75	0.76	0.76	0.79	0.72	0.72	0.75
Kuwait	0.86	51	0.50	0.64	0.72	0.76	0.73	0.73	0.79	0.77
Lebanon	0.85	50	0.44	0.48	0.64	0.76	0.82	0.82	0.77	0.83
Lithuania	0.86	51	0.43	0.76	0.78	0.73	0.76	0.73	0.69	0.73
Malaysia	0.86	50	0.61	0.65	0.71	0.75	0.73	0.72	0.71	0.75
Malta	0.87	52	0.51	0.67	0.72	0.83	0.78	0.80	0.69	0.73
Morocco	0.89	56	0.67	0.78	0.78	0.81	0.79	0.75	0.69	0.73
New Zealand	0.88	55	0.58	0.64	0.69	0.83	0.85	0.80	0.73	0.75
Norway (9)	0.77	39	0.51	0.46	0.45	0.78	0.79	0.72	0.55	0.63
Oman	0.86	52	0.40	0.54	0.70	0.84	0.83	0.78	0.76	0.78
Qatar	0.83	46	0.33	0.61	0.57	0.76	0.75	0.76	0.76	0.78
Russian Federation	0.84	47	0.59	0.62	0.68	0.75	0.75	0.78	0.55	0.74
Saudi Arabia	0.86	51	0.59	0.66	0.73	0.76	0.74	0.79	0.67	0.74
Singapore	0.89	58	0.58	0.73	0.71	0.83	0.82	0.82	0.77	0.79
Slovenia	0.87	53	0.65	0.73	0.78	0.76	0.76	0.73	0.68	0.71
South Africa (9)	0.88	55	0.73	0.78	0.75	0.79	0.72	0.80	0.64	0.72
Sweden	0.86	51	0.56	0.62	0.75	0.78	0.77	0.76	0.67	0.77
Thailand	0.86	50	0.57	0.70	0.75	0.76	0.73	0.71	0.72	0.70
Turkey	0.88	56	0.72	0.76	0.80	0.78	0.77	0.71	0.72	0.69
United Arab Emirates	0.86	51	0.48	0.56	0.63	0.79	0.78	0.82	0.80	0.79
United States	0.90	59	0.60	0.71	0.74	0.87	0.86	0.84	0.70	0.77
Benchmarking Participants										
Buenos Aires, Argentina	0.80	45	0.31	0.70	0.78	0.74	0.73	0.70	0.56	0.69
Ontario, Canada	0.87	53	0.58	0.62	0.61	0.84	0.83	0.80	0.75	0.76
Quebec, Canada	0.85	49	0.50	0.50	0.66	0.81	0.79	0.80	0.72	0.74
Norway (8)	0.79	41	0.40	0.56	0.58	0.79	0.80	0.73	0.56	0.61
Abu Dhabi, UAE	0.86	51	0.49	0.53	0.62	0.78	0.78	0.83	0.78	0.78
Dubai, UAE	0.87	52	0.35	0.61	0.63	0.82	0.77	0.82	0.83	0.81
Florida, US	0.90	59	0.71	0.71	0.74	0.85	0.84	0.81	0.72	0.75

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

