

Item Parameters for the TIMSS 2015 Problems with School Conditions and Resources – Teachers' Reports Scale, Fourth Grade

Item	delta	tau_1	tau_2	tau_3	Infit
ATBG08A	0.25146	-1.10267	-0.04789	1.15056	1.15
ATBG08B	0.10778	-0.98715	0.06755	0.91960	1.14
ATBG08C	-0.00295	-1.33876	0.01594	1.32282	0.95
ATBG08D	-0.67894	-0.79406	0.02136	0.77270	1.14
ATBG08E	-0.05211	-1.13587	-0.15567	1.29154	0.97
ATBG08F	0.24992	-1.09700	-0.04657	1.14357	0.90
ATBG08G	0.12484	-1.05906	-0.07924	1.13830	1.02

Scale Transformation Constants for the TIMSS 2015 Problems with School Conditions and Resources – Teachers' Reports Scale, Fourth Grade

Scale Transformation Constants					
A = 8.325487					
B = 1.363794					

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

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Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2015 Problems with School Conditions and Resources – Teachers' Reports Scale, Fourth Grade

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item						
			ATBC08A	ATBC08B	ATBC08C	ATBC08D	ATBC08E	ATBC08F	ATBC08G
Australia	0.83	51	0.76	0.68	0.77	0.50	0.75	0.73	0.75
Bahrain	0.85	54	0.61	0.74	0.79	0.70	0.68	0.84	0.76
Belgium (Flemish)	0.80	46	0.73	0.67	0.70	0.49	0.71	0.73	0.70
Bulgaria	0.87	57	0.71	0.65	0.82	0.66	0.79	0.81	0.80
Canada	0.80	47	0.73	0.56	0.69	0.64	0.75	0.67	0.72
Chile	0.85	53	0.75	0.77	0.75	0.56	0.72	0.76	0.77
Chinese Taipei	0.84	52	0.54	0.67	0.75	0.69	0.77	0.80	0.79
Croatia	0.88	59	0.72	0.75	0.83	0.52	0.84	0.86	0.78
Cyprus	0.86	54	0.76	0.70	0.77	0.56	0.83	0.75	0.73
Czech Republic	0.81	49	0.50	0.69	0.75	0.53	0.73	0.82	0.82
Denmark	0.82	49	0.76	0.53	0.69	0.58	0.81	0.77	0.70
England	0.86	55	0.71	0.68	0.79	0.64	0.80	0.81	0.72
Finland	0.83	51	0.75	0.75	0.78	0.56	0.79	0.71	0.62
France	0.78	44	0.76	0.68	0.68	0.46	0.73	0.70	0.60
Georgia	0.84	52	0.75	0.66	0.74	0.65	0.76	0.80	0.66
Germany	0.83	51	0.67	0.74	0.73	0.67	0.71	0.77	0.70
Croatia	0.88	56	0.59	0.72	0.80	0.64	0.80	0.816	0.816

