

The Confidence in Teaching Mathematics (CTM) scale was created based on teachers' responses to the five

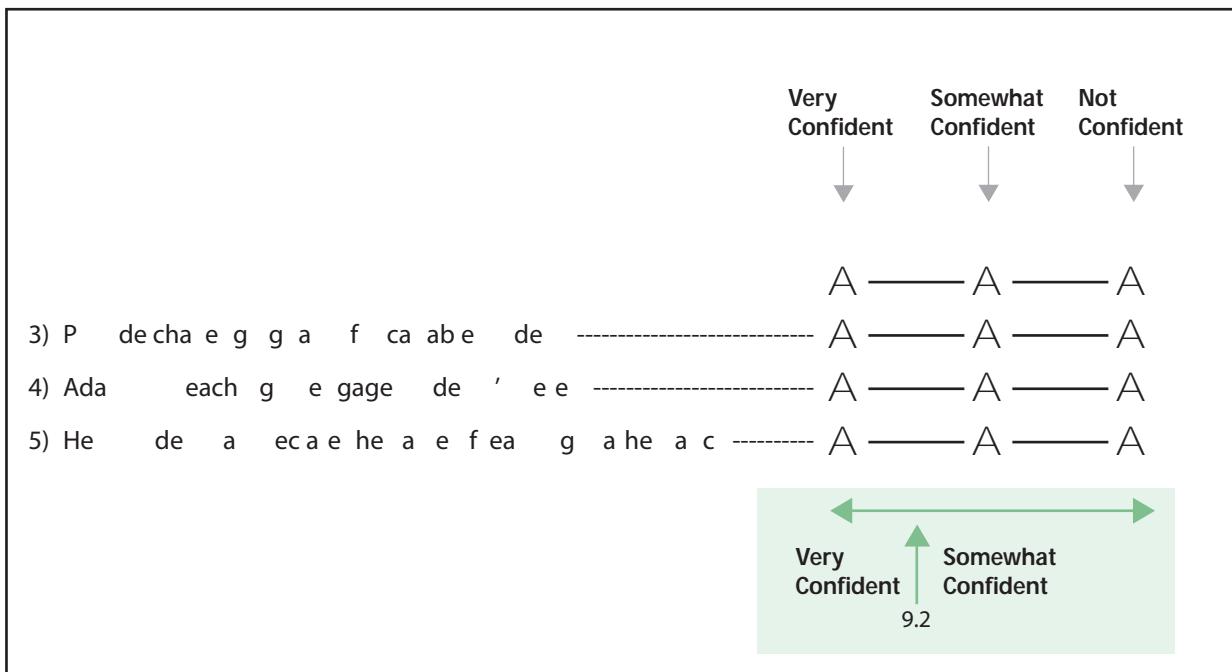


Exhibit 3: Scale Transformation Constants

Scale Transformation Constants	
A = 10.60547	T a f ed Sca e Sc e = 10.60547

Exhibit 5: Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2011 Confidence in Teaching Mathematics Scale, Eighth Grade

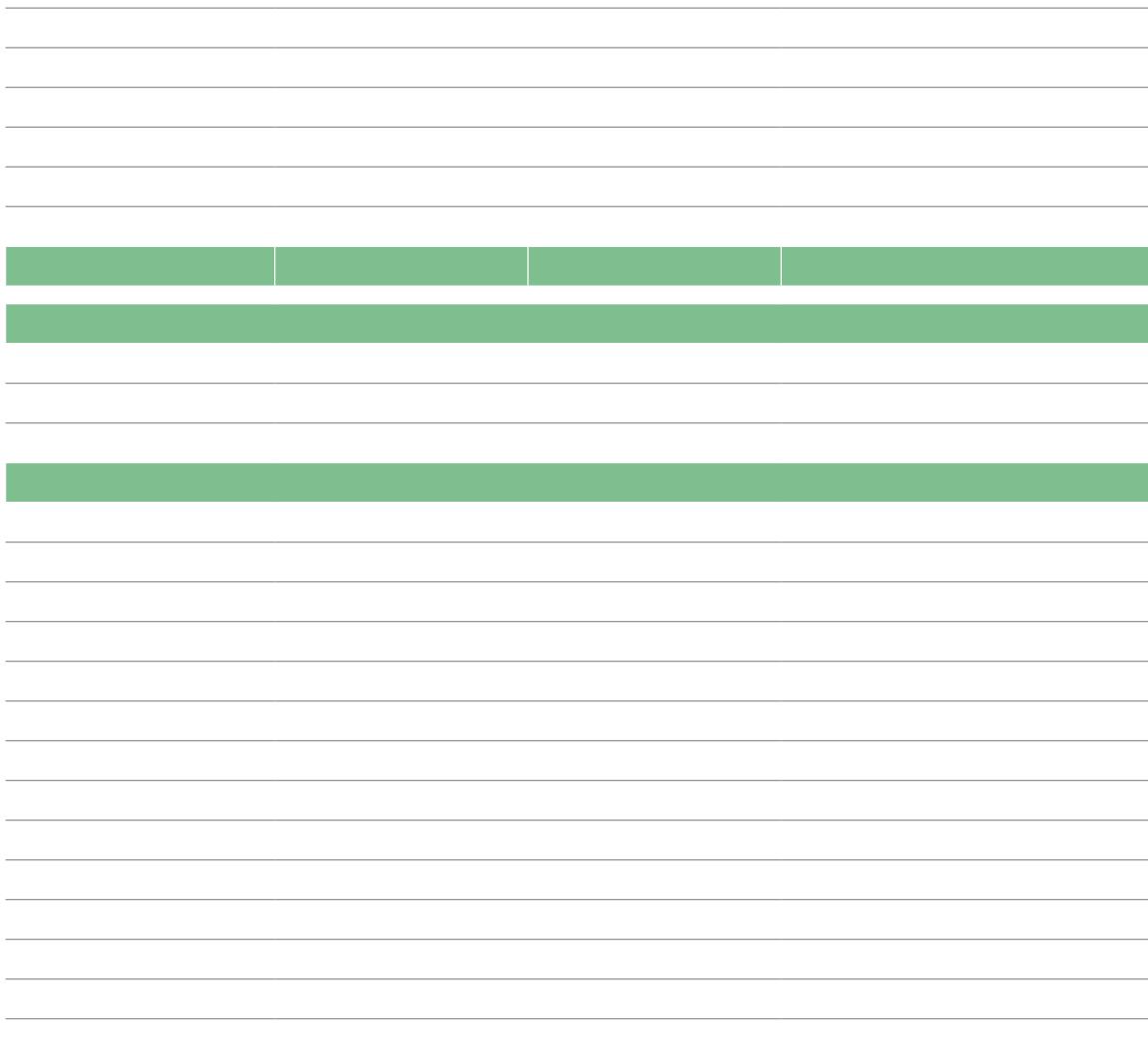
Exhibit 5: Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2011 Confidence in Teaching Mathematics Scale, Eighth Grade (Continued)

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Factor Loadings for Each Item				
			BTBM18A	BTBM18B	BTBM18C	BTBM18D	BTBM18E
M	0.71	46	0.67	0.74	0.62	0.71	0.65
N	0.69	45	0.52	0.67	0.73	0.70	0.72
N	0.67	44	0.53	0.72	0.67	0.72	0.66
O	0.59	39	0.61	0.64	0.54	0.64	0.67
P	0.65	42	0.59	0.70	0.64	0.64	0.65
Q	0.77	53	0.70	0.73	0.75	0.73	0.71
R	0.58	37	0.26	0.55	0.74	0.65	0.73
R	0.54	40	0.66	0.79	0.63	0.54	0.53
S	0.71	47	0.68	0.70	0.58	0.66	0.79
S	0.73	48	0.58	0.72	0.71	0.72	0.72
S	0.59	38	0.37	0.65	0.61	0.75	0.66
S	0.59	39	0.40	0.59	0.63	0.76	0.68
S	0.60	39	0.57	0.70	0.53	0.75	0.54
Th	0.73	49	0.61	0.65	0.76	0.74	0.72
T	0.67	43	0.58	0.62	0.64	0.77	0.66
T	0.63	41	0.63	0.74	0.44	0.67	0.68
U	0.44	38		0.51	0.74	0.68	0.52
U	0.67	44	0.55	0.73	0.69	0.72	0.59
U	0.69	45	0.55	0.70	0.68	0.70	0.72
Ninth Grade Participants							
B	0.62	41	0.45	0.64	0.66	0.68	0.73
H	0.40	32	0.19	0.04	0.17	0.89	0.88
S	0.74	51	0.65	0.74	0.68	0.75	0.74
Benchmarking Participants							
A	0.72	48	0.53	0.74	0.66	0.74	0.77
O	0.80	57	0.72	0.82	0.77	0.74	0.72
Q	0.72	48	0.52	0.74	0.72	0.70	0.75
Ab	0.70	46	0.58	0.75	0.71	0.80	0.51
D	0.71	47	0.64	0.76	0.70	0.69	0.61
A	0.70	47	0.65	0.54	0.77	0.67	0.77
Ca	0.63	42	0.37	0.72	0.63	0.70	0.74
C	0.68	44	0.28	0.60	0.74	0.72	0.83
C	0.62	47		0.38	0.69	0.76	0.83
F	0.59	41	0.65	0.54	0.72	0.54	0.71
I	0.62	46		0.42	0.67	0.79	0.78
Ma	0.57	37	0.27	0.52	0.69	0.79	0.65
M	0.63	41	0.45	0.69	0.75	0.57	0.72
N	0.67	50	0.72	0.82	0.73	0.63	0.61

N a a c e a g e de e e c dedf c a c e a a .

Exhibit 6: Relationship Between the TIMSS 2011 Confidence in Teaching Mathematics Scale, Eighth Grade, and TIMSS 2011 Mathematics Achievement

Country	Pearson's Correlation with Mathematics Achievement		Variance in Mathematics Achievement Accounted for by Difference Between Regions of 
	Correlation Coefficient	p-value	
United States	0.78	<0.001	65%



METHODS AND PROCEDURES

CREATING AND INTERPRETING CONTEXT QUESTIONNAIRE SCALES