

# TIMSS 2011

## The TIMSS 2011 Students Value Mathematics Scale, Eighth Grade

The Students Value Mathematics Scale (SVM) is a 40-item Likert-type scale that measures eighth-grade students' attitudes toward mathematics. The SVM is a 40-item Likert-type scale that measures eighth-grade students' attitudes toward mathematics. The SVM is a 40-item Likert-type scale that measures eighth-grade students' attitudes toward mathematics. See [TIMSS 2011 PIRLS 2011 Contextual Questionnaire](#) for more information.

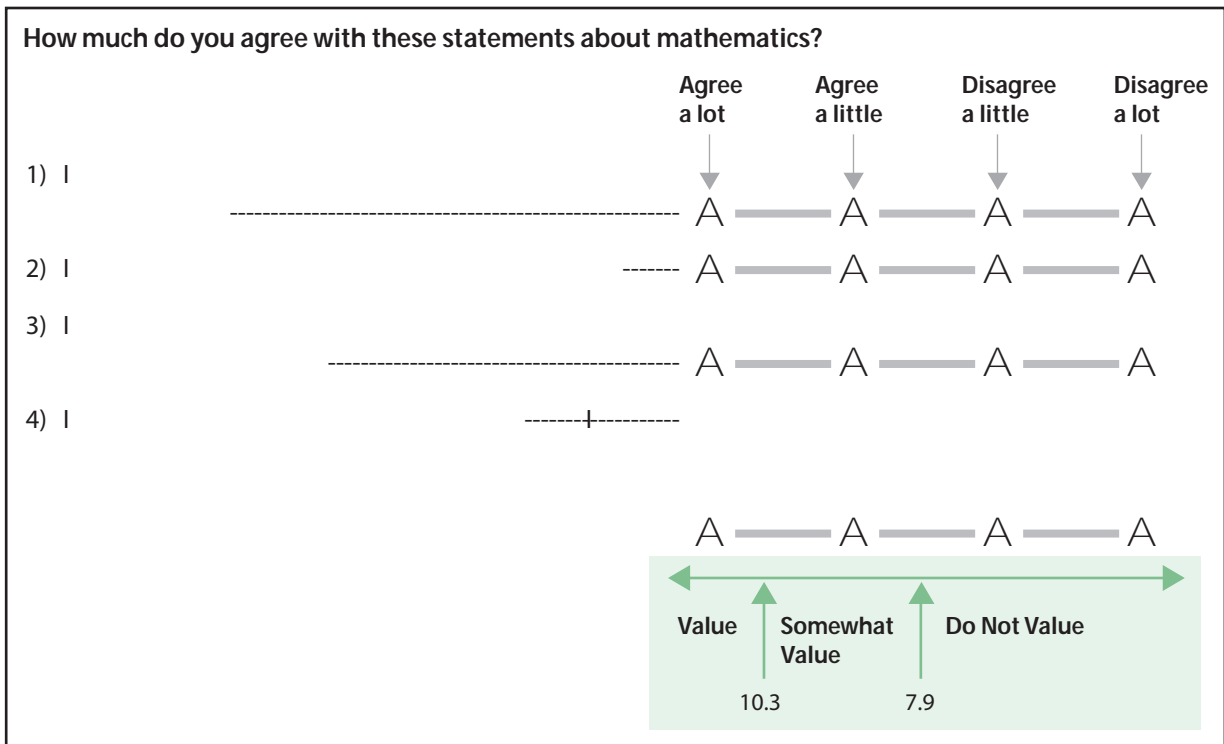


Exhibit 2: Item Parameters for the TIMSS 2011 Students Value Mathematics Scale, Eighth Grade


### Exhibit 3: Scale Transformation Constants



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

C r i t e r i a	C o n t e n t V a l i d i t y	E x p e r t R a t i n g	F a c t o r A n a l y s i s E i g e n v a l u e s					
			B B 16	B B 16	B B 16	B B 16	B B 16	B B 14F
L	0.77	47	0.67	0.67	0.76	0.77	0.63	0.59
L	0.80	51	0.75	0.70	0.78	0.78	0.59	0.67
M, R	0.80	51	0.68	0.72	0.78	0.80	0.71	0.57
M	0.79	49	0.69	0.65	0.79	0.77	0.64	0.66
M	0.70	43	0.61	0.67	0.78	0.76	0.55	0.51
N	0.82	54	0.77	0.74	0.77	0.78	0.65	0.68
N	0.80	51	0.72	0.67	0.81	0.80	0.64	0.63
O	0.72	43	0.68	0.69	0.76	0.74	0.53	0.51
P, N, A	0.74	46	0.71	0.70	0.77	0.75	0.52	0.59
Q	0.82	55	0.77	0.75	0.82	0.80	0.57	0.70
R	0.81	51	0.70	0.69	0.81	0.81	0.67	0.59
R, F	0.81	52	0.74	0.68	0.81	0.81	0.68	0.59
S, A	0.75	46	0.70	0.70	0.77	0.74	0.58	0.56
S	0.80	51	0.75	0.70	0.76	0.78	0.64	0.66
S	0.78	49	0.75	0.69	0.75	0.78	0.59	0.61
S	0.81	52	0.71	0.69	0.81	0.83	0.64	0.63
S, A, R	0.73	44	0.62	0.66	0.76	0.75	0.58	0.57
T	0.77	47	0.67	0.				
			T 657					
0.73	0.73	49.8						



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