TIMSS 2011 The TIMSS 2011 School Discipline and Safety Scale, Eighth Grade



Exhibit 1: Items in the TIMSS 2011 School Discipline and Safety Scale, Eighth Grade

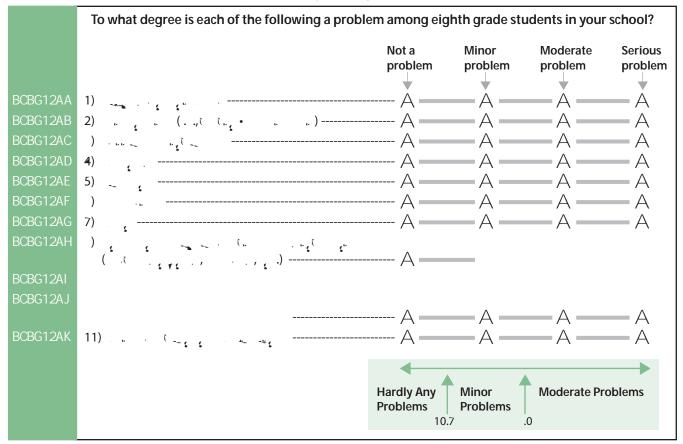


Exhibit 2: Item Parameters for the TIMSS 2011 School Discipline and Safety Scale, Eighth Grade

Item	delta	tau_1	tau_2	tau_3
12	1 .4 17	2. 0	0.444	.10521
12	0. 5 4 70	1. 27	0. 0	2.5 1 1
12	0. 4 25	2. 170	0.71	2.7 01
12	1.17	1. 4 0	0.	2.
12	1.0 2 2	1. 72 4 5	0. 4 5 05	2. 2550
12	1 .4 1	1.0 4 7	0. 1	1.72 7
12	1. 2 4 0	0.2 15	1.2 4 4	1.507
12	1. 4 51 1	1.7 12	0.5 1 4	2. 52
12	1.15	0.74 4	1.015 1	1.75 7
12	2.1 1	0.0 71	0. 7572	0. 4
12	2.550	1.1 12	0. 02 2	0.5 0

Exhibit 3: Scale Transformation Constants

Scale Transformation Constants								
. 427			407	. 0 7571				
0. 7571		~	. 42/	+ 0. 7571	· £	,	~	

Exhibit 4: Equivalence Table of the Raw Score and the Transformed Scale Score

Raw Score	Transformed Scale Score	Cutpoint	Raw Score	Transformed Scale Score	Cutpoint
0	. 044		17	.0 57	
1	5.11225		1	.2 471	
2	5. 5427		1	. 71	
	.014 2		20	.57 1	
4	.2 511		21	.7747	
5	.501		22	. 517	
	. 12		2	.2 07	
7	. 4 071		24	.50 1	
	. 2		25	.7 17	
	7.111		2	10.110 4 5	
10	7.2 211		27	10.4424	
11	7. 5107		2	10.7 500	10.7
12	7 .4 1		2	11.17 50	
1	7.5 12		0	11.5 21	
14	7.70		1	12.0 4	
15	7. 2011		2	12.7 271	
1	7.44	.0		1.441	

Exhibit 5: Cronbach's Alpha Reliability Coe	cient and Principal Components Analysis of the Items in the
TIMSS 2011 School Discipline and	Safety Scale, Eighth Grade

Exhibit 5: Cronbach's Alpha Reliability Coe cient and Principal Components Analysis of the Items in the TIMSS 2011 School Discipline and Safety Scale, Eighth Grade (Continued)

Exhibit 6: Relationship Between the TIMSS 2011 School Discipline and Safety Scale, Eighth Grade, and TIMSS 2011 Achievement

Exhibit 6: Relationship Between the TIMSS 2011 School Discipline and Safety Scale, Eighth Grade, and TIMSS 2011 Achievement (Continued)

	Pearson's Correlatio	Variance in Achievement	
Country	(r)		Accounted for by Difference Between Regions of the Scale (²)