TIMSS 2011

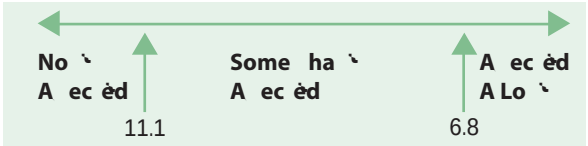
The TIMSS 2011 Instruction Affected by Mathematics Resource Shortages Scale, Fourth Grade

e Instruction A ected by Mathematics Resource Shortages (MRS) scale was created based on principals' responses concerning twelve school and classroom resources described below. See **C I IM PIRL 2011 C Q** for more information on how the scales were formed.

E hibi 1: I èm in he TIMSS 2011 In c ion A ec èd b Ma hema ic Re o rce Shor àge Scale, Fo h Grade

Ho m ch i o r chool' capaci ò pro ide in c ion a ec èd b a hor àge or inadeq ac of he follo ing?

		No a all	A li le	Some	A lo
	A. General School Re o rce				
ACBG10AA	1) Instructional materials (e.g., textbooks)	A	A	A	A
ACBG10AB	2) Supplies (e.g., papers, pencils)	A	A	A	A
ACBG10AC	3) School buildings and grounds	A	A	A	A
ACBG10AD	4) Heating/cooling and lighting systems	A	A	A	A
ACBG10AE	5) Instruc		A	A	A
ACBG10AF	6) Technologically competent sta	A	A	A	A
ACBG10AG	7) Computers for instruction	A	A	A	A
	B. Re o rce for Ma hema ic In c ion				
ACBG10CA	1) Teachers with a specialization in mathematics	A	A	A	A
ACBG10CB	2) Computer software for mathematics instruction	A	A	A	A
ACBG10CC	3) Library materials relevant to mathematics instruction	A	A	A	A
ACBG10CD	4) Audio-visual resources for mathematics instruction	A	A	A	A
ACBG10CE	5) Calculators for mathematics instruction	A	A	A	A



E hibi 2: I èm Parame èr for he TIMSS 2011 In c ion A ec èd b Ma hema ic Re o rce Shor àge Scale, Fo r h Grade