How much is your school's capacity to provide the following?	instruction a e	ected by a shortage or inadequacy of		
the following:	Not at all	A little	Some	A lot
A. General School Resources				
1) Instructional materials (e.g., textbooks)	A	— A —	— A —	—Α
2) Supplies (e.g., papers, pencils)	A	— A —	— A —	—Α
3) School buildings and grounds	A	— A —	— A —	—Α
4) Heating/cooling and lighting systems	A	— A —	— A —	—Α
5) Instructional space (e.g., classrooms)	A	— A —	— A —	—Α
6) Technologically competent sta	A			

Exhibit 2: Item Parameters for the TIMSS 2011 Instruction A ected by Mathematics Resource Shortages Scale, Eighth Grade

METHODS AND PROCEDURES

Country		

Country	₽ "′C "` M A "		V n n M A n A n X	
	(r)	(r²)	D A BY A R A S (2)	
Ŋ _n G P _n				
Botswana	0.06	0.00	0.01	
Honduras	0.21	0.04	0.06	
South Africa	0.15	0.02	0.17	
В, с, Р				
Alberta, Canada	0.10	0.01	0.01	
Ontario, Canada				
		Botswana		