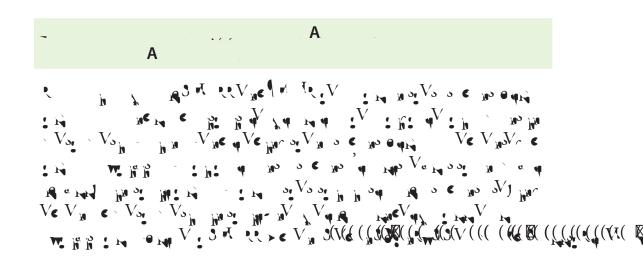


1 For example, for results from TIMSS 2007, see Mullis, IV.S., Martin, M.O., & Foy, P. (2008). 2007 TIMSS & PIRLS International Study Center, Boston College.



	200 B			101 200 B			26 100 B		
C	2008	A	1995	2008	A ,	1995	2008	A	1995
Armenia	30 (2.1)	444 (5.1)		22 (1. )	462 (8.3)		27 (1. )	426 (6.)	
Iran, Islamic Rep. of	1 (1.4)	528 (10.8)		14 (1.0)	500 (10.5)		28 (1.1)	4 (6.1)	
Italy	33 (2.1)	475 (7.1)	3 (3.5)	18 (1.2)	460 ( .4)	, 7 (3.8)	27 (1.3)	438 (7.8)	4 (3.3)
Lebanon	11 (0.7)	566 (5.2)		12 (0.8)	55 (5.4)		31 (1.2)	548 (3.7)	
Netherlands	36 (1. )	556 (2.)		21 (1.0)	555 (4.1)		26 (1.4)	54 (3.2)	
Norway	52 (1.6)	454 (4.8)		21 (1.1)	438 (5.5)		16 (1.0)	424 (5.)	
Philippines	6 (0.8)	387 (17.3)		12 (0.7)	377 (10. )		38 (1.3)	371 (5.3)	
Russian Federation	38 (1.5)	575 (6.5)	, 8 (2.6) i	31 (1.0)	561 (8.5)	_ 2 (2.0)	25 (1.1)	548 (8.)	<b>6 (2.0)</b> h
Slovenia	21 (1.3)	467 (7.7)	, (2.5) į	25 (0. )	461 (6.4)	_ 6 (2.3) i	38 (1.2)	456 (4.5)	5 (2.8) h
Sweden	50 (1.6)	43 (5.7)	, 8 (2.5) j	1 (0.)	410 (7.)	, 4 (1. ) i	1 (1.1)	37 (7.0)	<b>5 (1.6)</b> h

		11 25 B		0 10 B			
с <u>.</u>	2008	A	1995	2008	A	1995	
Armenia	13 (1.3)	418 (10.0)		7 (1.2)	376 (14.4)		
Iran, Islamic Rep. of	26 (1.2)	486 (6.1)		13 (1.1)	465 (8.1)		
Italy	16 (1.1)	420 (10.6)	2 (2.6)	7 (0.8)	400 (15.7)	<b>5 (1.0)</b> h	
Lebanon	26 (0. )	542 (4.6)		20 (1.0)	523 (3.8)		
Netherlands	12 (0. )	552 (3.8)		5 (0.6)	544 (8.2)		
Norway	7 (0.8)	387 (16.3)		4 (0.5)	406 (14.7)		
Philippines	31 (1.0)	336 (6.6)		13 (1.0)	323 ( .2)		
Russian Federation	6 (0.6)	525 (11.3)	<b>3 (0.8)</b> h	1 (0.2)		0 (0.3)	
Slovenia	14 (0. )	448 (7.0)	8 (1.2)				

#### h Pr BPTBPh P, TP'Bh F, B, BPPP, T

	Α	Α	A						
С.	2008	A ,	1995	2008	A ,	1995	2008	A	1995
Armenia	7 (0. )	436 (3.7)		2 (0. )			1 (0.2)		
Iran, Islamic Rep. of	80 (2.3)	4 8 (7.1)		10 (1.4)	473 (12.7)		(1.4)	50 (12.1)	
Italy	(0.2)	44 (7.2)	<b>2 (0.8)</b> h	1 (0.2)		_ 3 (0.8) i	0 (0.1)		0 (0.2)
Lebanon	10 (0.8)	547 (5.7)		66 (1.4)	54 (2.7)		24 (1.3)	534 (4.1)	
Netherlands	6 (0.6)	553 (2.7)		3 (0.4)	532 (8.)		1 (0.3)		
Norway	4 (0.5)	442 (5.1)		5 (0.5)	411 (13. )		1 (0.3)		
Philippines	15 (1.0)	371 (10.0)		81 (1.1)	350 (5.4)		4 (0.3)	402 (11.4)	
Russian Federation	7 (0.8)	562 (7.3)	_ 3 (0.8) į	3 (0.6)	527 (14.7)	<b>2 (0.6)</b> h	1 (0.3)		0 (0.4)
			0 (0.6)	2 (0.4)		0 (0.5)	1 (0.2)		0 (0.3)

# Exhibit 4.4: $(1, 2, ..., L \otimes 1, 1 \otimes 1, ..., M)$

с ,				1 - 1 	
Armenia	1. (0.06)	1.0			

			т., "	1.	1 2.	
<b>C</b>		A,		A	and a second	A A
Armenia	26 (1.5)	428 (8.8)	31 (1.8)	447 (7.1)	2 (1.8)	43 (8.0)
Iran, Islamic Rep. of	25 (1.3)	4 7 (6. )	40 (1.4)	513 (7.6)	26 (1.3)	485 (8.1)
Italy	2 (0.4)		27 (1.4)	455 (8.5)	38 (1.4)	453 (7.8)
Lebanon	3 (0.5)	524 (17.5)	23 (1.1)	552 (4.3)	41 (1.3)	545 (3.3)
Netherlands	0 (0.1)		14 (0. )	551 (4.2)	42 (1.4)	54 (3.2)
Norway	0 (0.1)		18 (1.2)	437 (6.6)	40 (1.6)	441 (6.2)
Philippines	4 (0.4)	301 (12.1)	18 (1.0)	336 (8.8)	43 (1.2)	350 (5.8)
Russian Federation	2 (0.3)		24 (1.2)	561 ( .3)	41 (1.3)	565 (7.8)
Slovenia	1 (0.2)		28 (2.0)	464 (5.3)	40 (1.3)	457 (5.)
Sweden	0 (0.1)		14 (1.0)	410 (11.5)	34 (1.1)	418 (6.6)

C	4	2	4	
		A	an a	A ,
Armenia	8 (1.1)	43 (12.2)	5 (0.8)	426 (17.3)
Iran, Islamic Rep. of	7 (0.8)	481 (11. )	2 (0.4)	
Italy	22 (1.1)	444 ( .8)	11 (0. )	431 (10.3)
Lebanon	23 (1.2)	546 (4.4)	11 (0. )	53 (5.5)
Netherlands	30 (1.4)	556 (4.0)	15 (1.0)	55 (4.3)
Norway	27 (1.1)	434 (6.5)	15 (1.8)	450 (6.)
Philippines	24 (1.1)	36 (7.2)	12 (1.0)	401 (11.3)
Russian Federation	21 (1.1)	563 (7.7)	12 (0. )	554 (7.)
Slovenia	23 (1.1)	454 (5.3)	8 (0.8)	453 ( .8)
Sweden	31 (1.1)	412 (6.6)	20 (1.3)	411 (8.3)

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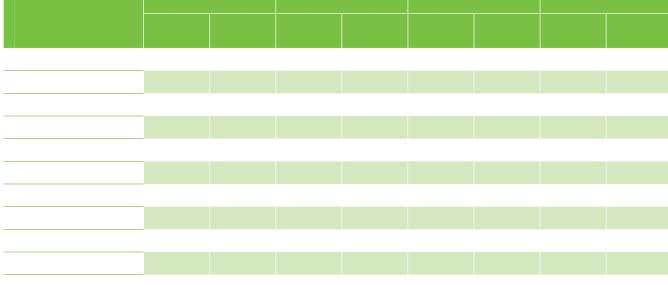


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$$\begin{array}{c} \left| V = q_{1} + q_{1} + q_{2} + q_{2} + q_{3} +$$

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#### ы<sub>н</sub> е<sub>к</sub> нетнев суте<sup>2</sup>ны<sub>к</sub> / унунест



$$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$$

## Exhibit 4.9: , , , , , , , , , , , , LVØ, , I VØ, , , , ,

			A,		A		
C .	an an <b>a</b> tha an	A A		A	an a	A	
Armenia	36 (1. )	46 (5.)	5 (1.1)	450 (31.5)	1 (0.2)		
Iran, Islamic Rep. of	8 (1.1)	483 (15. )	8 (0.8)	4 4 (13.4)	1 (0.3)		
ltal <b>ynn (m</b> 1.1) <b>n</b> (m							
					I		

o E no i hor harison in hydrigo V har Vor Von oV a i have haris no har Vale and he a har w he construct oV har Va he has he has he has he a har or e, himre on o e, Ve Va e Vor Von w he ha ha or e, himre on o e, Ve Va e Vor Von w he ha ha or e har or has have o e vor von oV a Vale oV har or has o e vor von oV a Vale oV har or has o e vor von oV a Vale oV har or has o e vor von h

 $\rightarrow c V_{\mathfrak{H}} = c \cdot V_{\mathfrak{H}} \cdot V_{\mathfrak{H}} \cdot V_{\mathfrak{H}} \circ V_{\mathfrak{H}} \circ V_{\mathfrak{H}}$ 

My or VyVeVn er Vor Von b Vrisher y inte

 $V_{H} \circ V_{H} \circ V_{H$ 

Mar not o c no was go eve house we a sha V a Voh h h hydras y hand hydros of Very estructure to the hold hand of hand hydros hand hydros hand hydros hy Ve Vy e Vor Von V ha an mouse of o ho he or in svin in a sing a sing with single single have a view v 47 mg radia Α Α

Vor Voh ha harver van Van eoro ev Vahor ai o ha or ha ha harver van arha ahar Vor vao ho Va ha or ha bo harver or Mor avar arha aharver aha vo ho va ha hoah "avar avar or Mor avar or ha vor a vor va Vec nhaa a avar avar avar avar or ha and vor vac c a "a Vac or ha ha aharver ar ha a or ha ahare ha vor vac c a "a vac or ha a ha a ha a or o c ao ha "bo o a vor vac vac o co ha a ha a ha a arha ahare ha or ha vor vac c a var vac o co ha a ha a ha a or ha a arba ahare ha vor vac c a var vac o co ha a ha a ha a arha a arba a a ha vor vac o c a var vac o c a var

ΤI

#### he se he the he ster be the second

Exhibit 4.14:

