

Exhibit 13.4: TIMSS Advanced 2015 Sample Sizes for Scaling the Advanced Mathematics Data

Country	Item Calibration		Proficiency Estimation	
	2015	2008	2015	2008
Armenia	—	858	—	858
France	3,967	—	3,967	—
Iran, Islamic Rep. of	—	2,425	—	2,425
Italy	3,318	2,143	3,318	2,143
Lebanon	1,161	1,612	1,161	1,612
Netherlands	—	1,537	—	1,537
Norway	2,537	1,932	2,537	1,932
Portugal	4,068	—	4,068	—
Russian Federation	—	3,185	7,558	3,185
Russian Federation 6hr+	3,431	—	3,431	—
Slovenia	2,922	2,156	2,922	2,156
Sweden	3,937	2,303	3,937	2,303
United States	2,954	—	2,954	—
Total	28,295	18,151	35,853	18,151