

Table 2. Average mathematics scores, familiarity rating to real and pseudo concepts, and within-education correlation between mathematics scores and familiarity ratings												
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Education systems	Mathematics score	REAL_MEAN	PSEUDO_MEAN	ADJUSTED_REAL_MEAN	Within-education-system correlation between (1) and (2)	P values of (5)	Within-education-system correlation between (1) and (4)	P values of (7)	Within-education-system correlation between (1) and (3)	P values of (9)	Gap between (5) and (7)	
Macao-China	538	3.9	2.2	1.7	0.53	0.00	0.26	0.00	0.15	0.00	-0.27	
Hong Kong-China	561	3.6	2.0	1.6	0.44	0.00	0.21	0.00	0.14	0.00	-0.23	
Singapore	573	3.6	2.4	1.2	0.63	0.00	0.48	0.00	0.13	0.00	-0.16	
Shanghai-China	613	4.3	2.0	2.2	0.49	0.00	0.37	0.00	-0.08	0.00	-0.12	
Japan	536	3.6	1.7	2.0	0.54	0.00	0.43	0.00	-0.02	0.13	-0.11	
Romania	445	3.7	2.9	0.8	0.39	0.00	0.28	0.00	0.05	0.12	-0.10	
Viet Nam	511	3.4	1.9	1.6	0.50	0.00	0.40	0.00	0.01	0.81	-0.10	
Israel	466	3.4	2.2	1.2	0.48	0.00	0.39	0.00	0.02	0.31	-0.09	
Peru	368	3.4	2.9	0.5	0.49	0.00	0.40	0.00	0.11	0.00	-0.08	
Malaysia	421	2.8	2.6	0.2	0.36	0.00	0.28	0.00	0.11	0.00	-0.08	
Argentina	388	2.8	2.4	0.5	0.38	0.00	0.30	0.00	0.10	0.00	-0.08	
Mexico	413	3.2	2.6	0.6	0.40	0.00	0.32	0.00	0.11	0.00	-0.08	
Costa Rica	407	3.0	2.3	0.7	0.45	0.00	0.37	0.00	0.07	0.01	-0.07	
Jordan	386	3.9	3.2	0.6	0.39	0.00	0.31	0.00	0.08	0.00	-0.07	
Chile	423	3.3	2.5	0.9	0.53	0.00	0.46	0.00	0.02	0.32	-0.07	
Denmark	500	3.2	2.3	0.8	0.41	0.00	0.34	0.00	0.07	0.00	-0.07	
Poland	518	3.6	2.6	1.0	0.46	0.00	0.39	0.00	-0.02	0.25	-0.06	
Tunisia	388	3.1	2.5	0.7	0.31	0.00	0.24	0.00	0.00	0.97	-0.06	
New Zealand	500	2.8	2.2	0.5	0.54	0.00	0.49	0.00	0.17	0.00	-0.06	
United Kingdom	494	2.9	2.2	0.8	0.53	0.00	0.47	0.00	0.11	0.00	-0.06	
Netherlands	523	2.8	2.2	0.6	0.60	0.00	0.54	0.00	0.01	0.59	-0.05	
Slovak Republic	482	3.2	2.1	1.1	0.54	0.00	0.49	0.00	-0.06	0.02	-0.05	
Qatar	376	3.2	2.9	0.2	0.48	0.00	0.43	0.00	0.11	0.00	-0.05	
Australia	504	3.0	2.3	0.8	0.58	0.00	0.54	0.00	0.13	0.00	-0.05	
Greece	453	3.7	2.2	1.5	0.42	0.00	0.38	0.00	-0.06	0.01	-0.04	
Latvia	491	3.8	2.1	1.6	0.45	0.00	0.41	0.00	-0.15	0.00	-0.04	
Belgium	515	3.4	2.2	1.3	0.60	0.00	0.56	0.00	-0.13	0.00	-0.04	
Brazil	389	3.0	2.5	0.5	0.50	0.00	0.47	0.00	0.07	0.00	-0.04	
Czech Republic	499	3.5	2.0	1.5	0.49	0.00	0.45	0.00	-0.05	0.03	-0.04	
Thailand	427	3.4	3.0	0.4	0.42	0.00	0.39	0.00	0.02	0.46	-0.04	
Ireland	501	2.8	2.0	0.7	0.49	0.00	0.46	0.00	0.10	0.00	-0.04	
Korea	554	3.8	1.4	2.4	0.64	0.00	0.60	0.00	-0.16	0.00	-0.04	
Canada	518	3.5	2.4	1.1	0.48	0.00	0.45	0.00	-0.01	0.32	-0.04	
Uruguay	409	3.1	2.1	1.0	0.52	0.00	0.49	0.00	0.00	0.87	-0.03	
United Arab Emirates	434	3.8	2.8	1.0	0.45	0.00	0.42	0.00	0.00	0.86	-0.03	
Colombia	376	3.3	2.6	0.7	0.45	0.00	0.41	0.00	0.02	0.51	-0.03	
Chinese Taipei	560	3.8	1.7	2.0	0.60	0.00	0.57	0.00	-0.15	0.00	-0.03	
United States of America	481	3.5	2.4	1.2	0.53	0.00	0.51	0.00	-0.03	0.10	-0.02	
Estonia	521	3.7	2.1	1.6	0.38	0.00	0.36	0.00	-0.07	0.01	-0.02	
Serbia	449	3.8	2.8	1.0	0.43	0.00	0.41	0.00	-0.06	0.00	-0.02	
Bulgaria	439	3.6	2.6	1.0	0.47	0.00	0.45	0.00	-0.07	0.00	-0.02	
Spain	484	3.5	1.6	1.8	0.55	0.00	0.53	0.00	-0.14	0.00	-0.02	
Italy	485	3.6	2.4	1.2	0.50	0.00	0.49	0.00	-0.06	0.00	-0.01	
Lithuania	479	3.2	2.2	1.1	0.46	0.00	0.45	0.00	-0.08	0.00	-0.01	
Finland	519	2.9	1.7	1.1	0.48	0.00	0.47	0.00	0.01	0.43	-0.01	
Croatia	471	3.6	2.5	1.1	0.47	0.00	0.47	0.00	-0.08	0.00	0.00	
Montenegro	410	3.5	2.8	0.7	0.39	0.00	0.39	0.00	-0.03	0.16	0.00	
Perm(Russian Federation)	484	3.7	2.5	1.2	0.37	0.00	0.38	0.00	-0.13	0.00	0.00	
Luxembourg	490	3.0	2.5	0.5	0.46	0.00	0.47	0.00	-0.01	0.65	0.01	
Portugal	487	3.4	2.4	1.0	0.53	0.00	0.55	0.00	-0.12	0.00	0.01	
Kazakhstan	432	3.7	3.0	0.7	0.29	0.00	0.30	0.00	-0.04	0.11	0.01	
Austria	506	3.1	2.0	1.1	0.55	0.00	0.56	0.00	-0.15	0.00	0.01	
Albania	394	3.9	3.4	0.5	-0.01	0.67	0.01	0.67	-0.02	0.42	0.02	
Slovenia	501	3.6	2.5	1.2	0.46	0.00	0.49	0.00	-0.10	0.00	0.03	
Germany	514	3.2	2.0	1.2	0.56	0.00	0.59	0.00	-0.16	0.00	0.03	
Hungary	477	3.6	2.1	1.5	0.55	0.00	0.59	0.00	-0.22	0.00	0.04	
Turkey	448	3.7	2.4	1.3	0.42	0.00	0.47	0.00	-0.18	0.00	0.05	
Indonesia	375	3.1	2.9	0.2	0.31	0.00	0.37	0.00	0.00	0.88	0.05	
France	495	3.4	2.1	1.3	0.51	0.00	0.57	0.00	-0.20	0.00	0.06	
Switzerland	531	2.9	2.1	0.9	0.50	0.00	0.57	0.00	-0.15	0.00	0.07	
Russian Federation	482	3.8	2.6	1.2	0.30	0.00	0.38	0.00	-0.18	0.00	0.08	
Liechtenstein	535	3.1	2.1	1.1	0.59	0.00	0.69	0.00	-0.24	0.00	0.10	
Iceland	493	2.6	1.7	0.9	0.24	0.00	0.40	0.00	-0.09	0.00	0.16	
Sweden	478	1.9	1.6	0.3	0.10	0.00	0.36	0.00	-0.12	0.00	0.26	
MEAN	474	3.4	2.3	1.0	0.46		0.43		-0.03		-0.03	
Min	368	1.9	1.4	0.2	-0.01		0.01		-0.24		-0.27	
Max	613	4.3	3.4	2.4	0.64		0.69		0.17		0.26	