

Appendices

Table A1. Descriptive statistics of variables

Sample	2012 NSSA data, 8th grade	
Categorical variables	Category	N
Home possessions	Number of books at home	1-10 633 11-25 1253 26-100 1478 101-200 628 >200 470 Missing 17
	Have at home an encyclopedia	Yes 3316 No 1085 Missing 78
	Have at home a dictionary	Yes 3272 No 1118 Missing 89
	Have at home some journals	Yes 3152 No 1253 Missing 74
	Have at home musical instruments	Yes 1985 No 2395 Missing 99
	Have at home works of art/albums	Yes 2967 No 1416 Missing 96
	Have at home three or more computers	Yes 1410 No 2964 Missing 105
	Have at home a dishwasher	Yes 1432 No 2941 Missing 106
Gender	Male Female Missing	2237 2231 11
Numeric variables	Statistics	Value
Reading performance	Mean	515.03
	Median	518.36
	Standard deviation	76.86
	Valid N	2986
	Min	286.04
	Max	789.36
	Missing	1493
School-related affect	Mean	2.80
	Median	3.00
	Standard deviation	0.54
	Valid N	4463
	Min	1
	Max Missing	4 16

Sample	2014 NSSA data, 8th grade			
Categorical variables		Category	N	
Home possessions	Number of books at home	1-10	589	
		11-25	1084	
		26-100	1159	
		101-200	515	
		>200	404	
		Missing	12	
		Have at home an encyclopedia	Yes	2821
			No	904
		Missing	38	
	Have at home a dictionary	Yes	2631	
No		1101		
	Missing	31		
Have at home some journals	Yes	2590		
	No	1138		
	Missing	35		
Have at home musical instruments	Yes	1717		
	No	2003		
	Missing	43		
Have at home works of art/albums	Yes	2592		
	No	1131		
	Missing	40		
Have at home three or more computers	Yes	1908		
	No	1810		
	Missing	45		
Have at home a dishwasher	Yes	1399		
	No	2308		
	Missing	56		
Gender		Male	1860	
		Female	1897	
		Missing	6	
Numeric variables	Statistics		Value	
Reading performance		Mean	515.77	
		Median	520.9	
		Standard deviation	79.94	
		Valid N	1669	
		Min	272.89	
		Max	749.08	
		Missing	2094	
	School-related affect		Mean	2.81
		Median	3.0	
		Standard deviation	0.61	
		Valid N	3750	
		Min	1	
		Max	4	
		Missing	13	
Sample		2015 NSSA data, 8 th grade		
Categorical variables		Category	N	
Home possessions	Number of books at home	1-10	507	

		11-25 26-100 101-200 >200 Missing	980 1107 452 404 32
	Have at home an encyclopedia	Yes No Missing	2679 755 48
	Have at home a dictionary	Yes No Missing	2377 1046 59
	Have at home some journals	Yes No Missing	2206 1223 53
	Have at home musical instruments	Yes No Missing	1547 1873 62
	Have at home works of art/albums	Yes No Missing	2365 1057 60
	Have at home three or more computers	Yes No Missing	1569 1849 64
	Have at home a dishwasher	Yes No Missing	1399 2018 65
Gender		Male Female Missing	1743 1722 17
Numeric variables		Statistics	Value
Reading performance		Mean Median Standard deviation Valid N Min Max Missing	499.52 505.74 93.83 873 206.06 728.82 2609
School-related affect		Mean Median Standard deviation Valid N Min Max Missing	2.85 3.00 0.58 3445 1 4 37
Sample	2016 NSSA data, 6th grade		
Categorical variables		Category	N
Home possessions	Number of books at home	1-10 11-25 26-100 101-200 >200	373 890 892 341 202

		Missing	12
	Have at home an encyclopedia	Yes No Missing	2069 617 24
	Have at home a dictionary	Yes No Missing	1856 820 34
	Have at home some journals	Yes No Missing	1647 1035 28
	Have at home musical instruments	Yes No Missing	1300 1378 32
	Have at home works of art/albums	Yes No Missing	1927 750 33
	Have at home three or more computers	Yes No Missing	1329 1341 40
	Have at home a dishwasher	Yes No Missing	1279 1388 43
Gender		Male Female Missing	1355 1352 3
Numeric variables		Statistics	Value
Reading performance		Mean Median Standard deviation Valid N Min Max Missing	499.90 503.08 92.84 2250 200.75 777.37 460
School-related affect		Mean Median Standard deviation Valid N Min Max Missing	2.97 3.00 0.58 2695 1 4 15
Sample	2018 PISA data, Lithuania		
Categorical variables		Category	N
Home possessions	Number of books at home	1-10 11-25 26-100 101-200 201-500 >500 Missing	1081 1447 2198 1005 678 369 107
	Have at home classic literature	Yes No	3608 3114

		Missing	163
	Have at home books on art, music, or design	Yes No Missing	4862 1859 164
	Have at home technical reference books	Yes No Missing	4639 2056 190
	Have at home a dictionary	Yes No Missing	5625 1115 145
	How many cars at home	0-1 2 >2 Missing	3145 2508 1024 208
	How many computers at home	0-1 2 >2 Missing	2021 2704 2021 139
	How many musical instruments at home	0-1 2 >2 Missing	4846 1080 817 142x
Gender	Male Female Missing		3508 3377 0
Numeric variables	Statistics		Value
Reading performance (first plausible value)	Mean Median Standard deviation Valid N Min Max Missing		470.52 472.68 94.23 6885 139.77 755.28 0

Table A2. Eigenvalues and proportions of explained variance (inertia) by first five dimensions of MCA solutions for analyzed datasets

Sample	Dimension	Eigenvalue	% of explained inertia	Cumulative % of explained inertia
2012 NSSA data, 8th grade	1	0.239	17.622	17.622
	2	0.153	11.318	28.940
	3	0.128	9.461	38.401
	4	0.126	9.264	47.664
	5	0.123	9.113	56.777
2014 NSSA data, 8th grade	1	0.264	19.329	19.329
	2	0.148	10.852	30.182
	3	0.130	9.541	39.722
	4	0.125	9.157	48.879
	5	0.122	8.968	57.847
2015 NSSA data, 8th grade	1	0.249	18.374	18.375
	2	0.149	10.973	29.347
	3	0.129	9.547	38.894
	4	0.126	9.315	48.209
	5	0.124	9.147	57.356
2016 NSSA data, 6th grade	1	0.238	17.443	17.443
	2	0.146	10.725	28.168
	3	0.128	9.392	37.560
	4	0.127	9.290	46.851
	5	0.125	9.145	55.996
2018 PISA data, Lithuania	1	0.300	16.287	16.287
	2	0.149	8.093	24.381
	3	0.137	7.463	31.843
	4	0.128	6.965	38.809
	5	0.124	6.745	45.554