

Appendix 4: Attrition, differences in test scores across strata of schools, and missing values

Proportion of children who completed the test

Control schools				
	Government	Private	Total	N (%) of schools
Rural	67.4%	61.8%	65.8%	8 (13%)
Semi-urban	70.2%	70.2%	70.2%	15 (25%)
Urban	73.1%	70.5%	71.6%	37 (62%)
Total	71.2%	69.8%	70.6%	

Intervention schools				
	Government	Private	Total	N (%) of schools
Rural	74.8%	77.3%	76.3%	6 (10%)
Semi-urban	86.3%	93.1%	88.7%	14 (23%)
Urban	93.2%	92.5%	92.8%	40 (67%)
Total	89.8%	91.1%	90.4%	

Test scores

	Treatment effect	School ownership effect	School location effect
Mean score			
Without weighting	20.0% (95% CI 17.3 to 22.7) P < 0.00001	5.86% (95% CI 3.11% to 8.61%) P = 0.00003	1.24% (95% CI -0.63 to 3.12) P = 0.194
Weighted	20.0% (95% CI 17.3 to 22.7)	5.83% (95% CI: 3.08% to 8.57%) P = 0.00003	1.23% (95% CI -0.64 to 3.10) P = 0.199
Passing score (≥ 13 out of 24 correct answers)			
Without weighting	OR 9.34 (95% CI 6.62 to 13.18) (P < 0.00001)	OR 1.98 (95% CI 1.40 to 2.81) P = 0.00011	OR 1.28 (95% CI 1.00 to 1.63) P = 0.04623
Weighted	OR 9.48 (95% CI 6.70 to 13.41) P < 0.00001	OR 1.97 (95% CI 1.39 to 2.80) P = 0.00015	OR 1.28 (95% CI 1.00 to 1.63) P = 0.04811
Mastery score (≥ 20 out of 24 correct answers)			
Without weighting	OR 35.33 (95% CI 20.58 to 60.67) P < 0.00001	OR 2.45 (95% CI 1.57 to 3.82) P = 0.00008	OR 1.07 (95% CI 0.76 to 1.51) P = 0.692
Weighted	OR 39.07 (95% CI 22.92 to 66.61) P < 0.00001	OR 2.55 (95% CI 1.61 to 4.03) P = 0.00006	OR 1.07 (95% CI 0.76 to 1.51) P = 0.706

OR: odds ratio

Number of missing values in each question for students

Number of unanswered questions

(Total number of completed tests: 6383 for intervention and 4430 for control schools)

	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
Intervention	41	41	24	46	56	56	54	44	99	90	48
Control	34	22	25	24	21	23	30	19	36	27	30

	Q15	Q16	Q17	Q18	Q19	Q20	Q21 part1	Q21 part2	Q21 part3	Q21 part4	Q22 part1
Intervention	54	71	85	56	49	66	105	149	137	146	107
Control	30	33	52	26	20	38	144	169	224	203	126

	Q22 part2	Q22 part3	Q23 part1	Q23 part2	Q24 part1	Q24 part2	Q25 part1	Q25 part2	Q25 part3	Q25 part4
Intervention	114	127	81	84	189	211	171	202	212	194
Control	160	170	133	125	211	216	190	208	221	194