

Lab_8

QRME Cohort!

11/10/2021

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Commit 1

schidkn	sex	frl	reg_size	reg_size_aid	small_size	white	black	other	totexp	tmathss	treadss
63	girl	no	0	0	1	1	0	0	7	473	447
20	girl	no	0	0	1	0	1	0	21	536	450
19	boy	yes	0	1	0	0	1	0	0	463	439
69	boy	no	1	0	0	1	0	0	16	559	448
79	boy	yes	0	0	1	1	0	0	5	489	447
5	boy	yes	1	0	0	1	0	0	8	454	431
16	girl	yes	0	1	0	0	1	0	17	423	395
56	girl	no	1	0	0	1	0	0	3	500	451
11	girl	no	0	0	1	0	1	0	11	439	478
66	girl	no	0	0	1	1	0	0	10	528	455

Commit 2

Prior literature that explores environmental factors that influence academic achievement finds that economic status (Barry 2006) (Considine and Zappalà 2002) and gender (Hubbard 2005) (Kukulu et al. 2013) significantly influences academic achievement

Commit 3

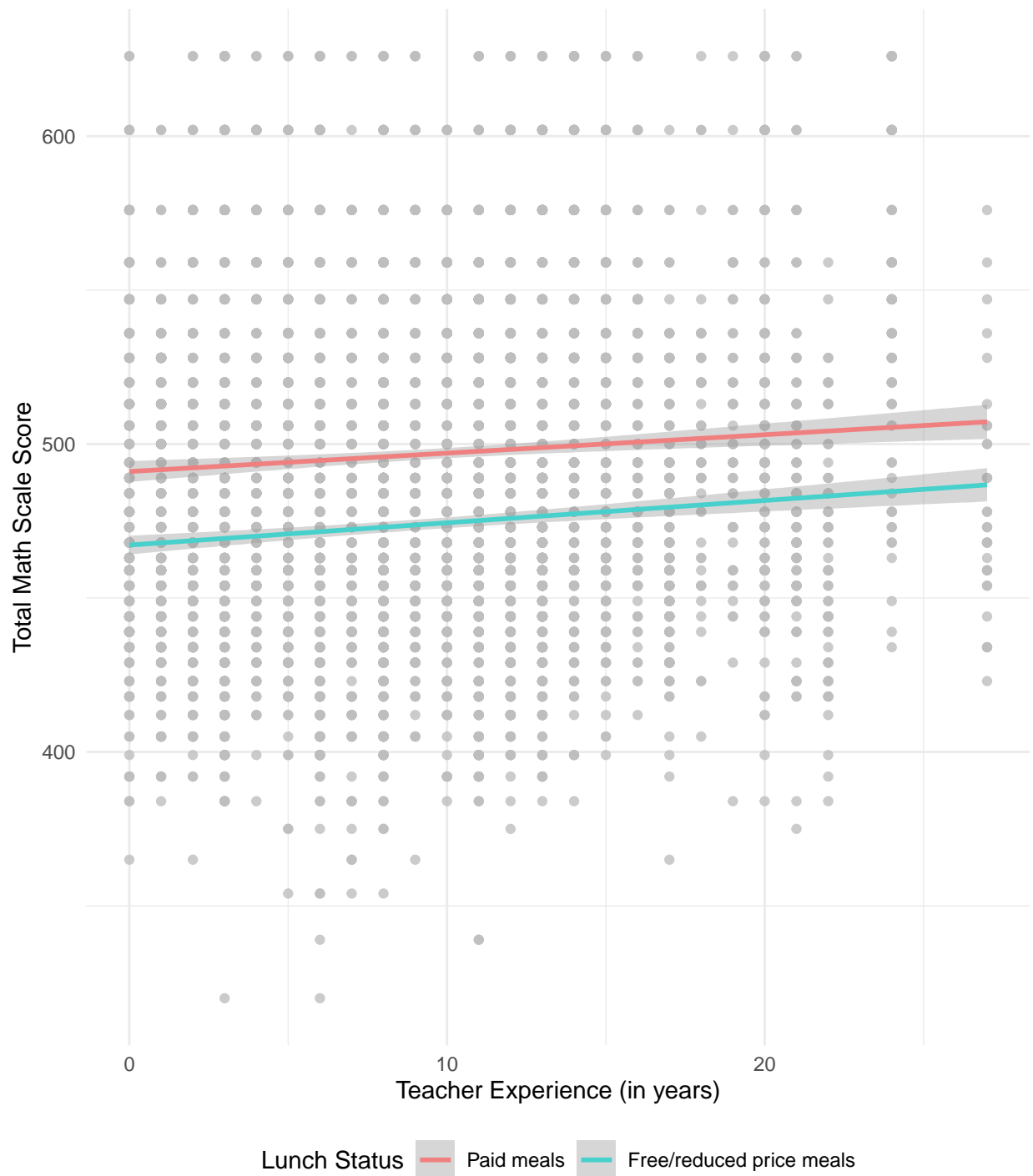
Summary statistics for students based on sex and free reduced lunch status

On average, students from low-income families with free/reduced lunch status regardless of their sex scored lower than their higher income peers.

sex	frl	math_mean	math_sd	rdg_mean	rdg_sd
boy	no	492.85	46.34	441.46	32.32
boy	yes	469.87	46.09	425.38	26.63
girl	no	501.21	45.96	448.54	34.52
girl	yes	477.51	46.30	430.80	27.42

Commit 4

Relation between teacher experience and math scores
Separate regression lines displayed by free/reduced price lunch status



Description:

1. Though the regression lines have a positive slope, it almost looks flat. We can say that teacher's experience doesn't have much affect on student's math scale scores.

2. Students with a lunch status of “Paid meals” score more than those on “Free/reduced price meals” status.

References

- Barry, Jennifer. 2006. "The Effect of Socio-Economic Status on Academic Achievement." PhD thesis.
- Considine, Gillian, and Gianni Zappalà. 2002. "The Influence of Social and Economic Disadvantage in the Academic Performance of School Students in Australia." *Journal of Sociology* 38 (2): 129–48.
- Hubbard, Lea. 2005. "The Role of Gender in Academic Achievement." *International Journal of Qualitative Studies in Education* 18 (5): 605–23.
- Kukulu, K, O Korukcu, Y Ozdemir, A Bezci, and C Calik. 2013. "Self-Confidence, Gender and Academic Achievement of Undergraduate Nursing Students." *Journal of Psychiatric and Mental Health Nursing* 20 (4): 330–35.