Lab 8

Amy, Mandi, Marielena
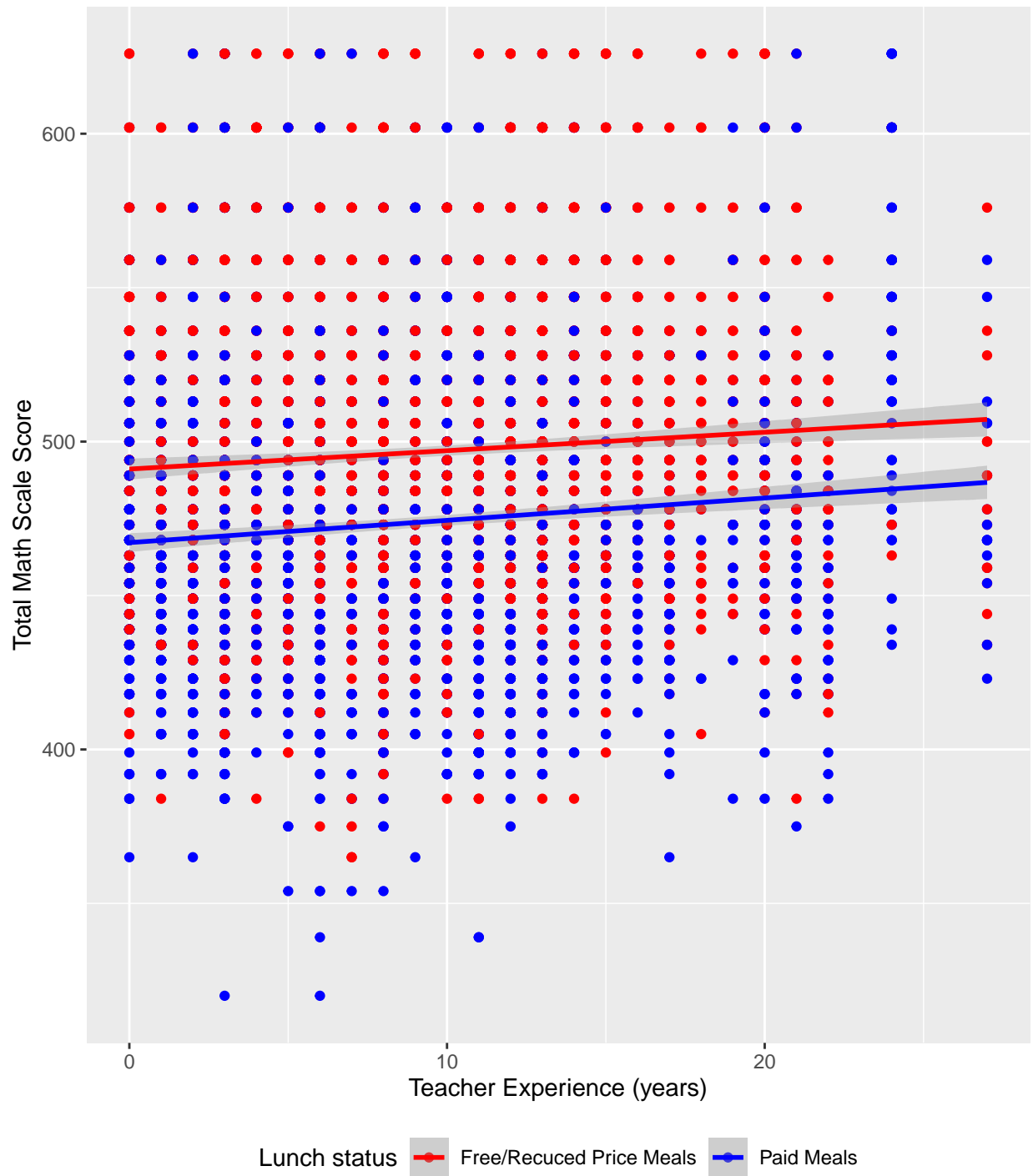
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In this lab, we will use the `tidyverse` (Wickham et al. (2019)) and `here` (Müller (2020)) packages. We will also use `reader` by Wickham and Hester (2021) and `ggplot2` by Wickham (2016), both of which load automatically with the `tidyverse` package.

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

Below is the graph that shows relationship between teacher experience and math scores with regression lines displaying lunch status as free/reduced vs. paid lunch.

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

References

Müller, Kirill. 2020. *Here: A Simpler Way to Find Your Files.* https://CRAN.R-project.org/package=here.

Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis.* Springer-Verlag New York. https://ggplot2.tidyverse.org.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.

Wickham, Hadley, and Jim Hester. 2021. *Readr: Read Rectangular Text Data.* https://CRAN.R-project.org/package=readr.