## hw\_6

## # A tibble: 4 x 6 frl math\_mean math\_sd rdg\_mean rdg\_sd sex <fct> <fct> <dbl> <dbl> <dbl> <dbl> 1 boy 493. 46.3 441. 32.3 no 2 boy 470. 46.1 425. 26.6 yes 3 girl 501. 46.0 449. 34.5 no 478. 46.3 27.4 4 girl 431. yes

The table presents average math and reading scores, along with standard deviations, for students grouped by gender (boys and girls) and free reduced lunch (FRL) status. Boys without FRL had a math mean of 493 and reading mean of 441, while boys with FRL scored lower on average in both subjects (470 in math and 425 in reading). Similarly, girls without FRL scored higher (501 in math and 449 in reading) compared to girls with FRL, who had averages of 478 in math and 431 in reading. This data highlights performance differences associated with gender and FRL status.

For homework6, program R created by R Core Team (2024) is used for data analysis. Then R packages such as tidyverse (Wickham et al. 2019), here (Müller 2020), and rio (Chan et al. 2023) are applied.

## References

- Chan, Chung-hong, Thomas J. Leeper, Jason Becker, and David Schoch. 2023. Rio: A Swiss-Army Knife for Data File i/o. https://cran.r-project.org/package=rio.
- Müller, Kirill. 2020. Here: A Simpler Way to Find Your Files. https://CRAN.R-project.org/package=here.
- R Core Team. 2024. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.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.