

PSYC2020L Assignment 2

[name]

2025-08-29

Goals for Review:

- Basic R functions
- Descriptive statistics

For each question, please make sure you include code output. If the question asks for comparison or further explanation, please make sure to include that as well.

Setting Up

- 1) Rename this assignment as “Lab 2 Assignment [Last, First].Rmd”
- 2) Check and set your working directory

Basic R Functions

- 3) Write an R function that takes in two numbers, multiplies them together, and returns the product
- 4) Write an R function that takes in three vectors, puts them in a dataframe, and returns the last two rows of the dataframe.

Data Summary

- 5) Show me the first five rows of the `airquality` dataset
- 6) Obtain the `summary()` statistics for this dataset

7) Ozone Descriptive Statistics

- a) What is the mean?
- b) What is the median?

8) Histograms for Ozone

- a) Obtain a histogram with breaks = 10
- b) Obtain a histogram with breaks = 50
- c) Obtain a histogram with breaks = 200
- d) Compare three histograms above and describe the differences

9) Boxplot for Ozone

- a) Obtain a boxplot for Ozone
- b) Is the data symmetrical? (Yes / No) How can you tell?
- c) Is the data skewed? (Yes / No) How can you tell?

10) Descriptive statistics for Temp

- a) What is the mean?
- b) What is the median?

11) Histogram for Temp

- a) Obtain a histogram with default number of breaks.

12) Comparison between Ozone and Temp...

- a) Does the mean change?
- b) Does the median change?