PSYC 2317: Statistical Methods for Psychology

Tarleton State University Homework 1 Fall 2019

1. Find the mean and median for the following scores:

2 5 15 3 9

2. Find the mean and median for the following scores:

5 4 5 2 7 1 3 5

- 3. The following exercises will give you practice with statistical notation:
 - (a) A set of N = 15 scores has $\sum X_i = 120$. What is \overline{X} ?
 - (b) A set of N=8 scores has a mean of $\overline{X}=12$. What is the value of $\sum X_i$ for this sample?
 - (c) A set of scores has a mean of $\overline{X} = 8$ and $\sum X_i = 40$. How many scores are in the set?
- 4. A set of N=7 scores has a mean of $\overline{X}=16$. One score in the set is changed from X=6 to X=20. What is the value for the new mean after this adjustment?
- 5. (JASP exercise) For this exercise, you'll need to download the "ADD.csv" file from Canvas. We'll be interested in two variables: ADDSC, which is the average of three ADD-like behavior scores obtained in elementary school, and Gender, which can be either male or female.
 - (a) Compute the mean and median of ADDSC
 - (b) Compute the mean of ADDSC split by Gender. Which gender appears to have the larger ADDSC score?
 - (c) Repeat part (b) using the median. What differences do you notice compared to part (b)? Why might this be the case?