

PSYC 2317: Statistical Methods for Psychology

Tarleton State University

Unit 1 Homework

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. A set of $N = 7$ scores has a mean of $\bar{X} = 16$. One score in the set is changed from $X = 6$ to $X = 20$. What is the value for the new mean after this adjustment?
4. Calculate the variance and standard deviation for the following set of scores: 2, 13, 4, 10, 6
5. For the following set of scores:

2 9 6 8 9 8

- (a) calculate the standard deviation
- (b) Add 2 points to each score and compute the standard deviation again. Describe how adding a constant to each score influences measures of variability.