

Group Work - Week 3

1 The file “max_temp.csv” on D2L contains the daily high temperatures (in F) for (most of) August.

(a) Find the mean, median, mode and midrange of the sample. What is the most appropriate measure of center for this data?

(b) Find the range, variance and standard deviation of the sample. Be sure to include the correct units for each measure.

(c) Within the data set, what percentile is 75 degrees? What temperature is the 10th percentile?

2 The file “mpls_home_sales.csv” on D2L contains the adjusted sale prices (in dollars) of a sample of home sold in Minneapolis in 2016.

(a) Find the mean, median, mode and midrange of the sample. What is the most appropriate measure of center for this data?

(b) Find the range, variance and standard deviation of the sample. Be sure to include the correct units for each measure.

(c) Find the 5 number summary of the sample and create a boxplot. What does the boxplot tell you about the distribution of the data.

- 3** The file “heights.csv” on D2L contains simulated heights (in inches) of 25 men and 25 women.
- (a) Find the mean and median of both samples. What is the most appropriate measure of center for this data?
 - (b) Find standard deviation of both samples.
 - (c) Suppose two new students join the class. One is a woman who is 71 inches tall and one is a man who is 74 inches tall. Calculate z-scores for both. Who is taller for their gender? Are either of them unusually tall?