

Name: \_\_\_\_\_

Math 130 Day 2 In Class Worksheet

Date: \_\_\_\_\_

Measures of Center and Spread

Data set: 5, 37, 51, 22, 18, 31, 22, 5, 37, 43, 17, 18, 22, 37, 9, 43

1. For the data set above, find the following...

a) mean

b) median

c) mode

d) midrange

e) range

f) standard deviation

g) variance

2. Below are 2 data sets.

Data set 1: 8, 29, 80, 129, 294

Data set 2: 45, 47, 49, 42, 43

Let  $s_1$  be the standard deviation of data set 1 and let  $s_2$  be the standard deviation of data set 2. Without calculating them, which one is bigger:  $s_1$  or  $s_2$  ? Why?

3. Suppose you have 2 data sets. Let  $s_1$  be the standard deviation of data set 1 and let  $s_2$  be the standard deviation of data set 2. If  $s_1 = 5.7$  and  $s_2 = 1.4$ , what can you say about the data sets?