Name:_____ Math 130

Date: 2/5/2025 Quiz 2

Some formulas you may need: $\bar{x} = \frac{\sum x}{n}$ $s = \sqrt{\frac{\sum (x - \bar{x})^2}{n-1}} = \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}}$

1. (8 points) Here is some data: 16 8 8 4 5 16 5 8

For this data, find the

a) mean b) median c) mode

d) midrange e) range

f) standard deviation g) variance

2. (2 points) Here are two data sets.

Data Set 1: 5, 27, 89, 95, 148, 150 Data Set 2: 321, 325, 321, 323, 326, 327

Let s_1 be the standard deviation of data set 1 and let s_2 be the standard deviation of data set 2. Which one is larger, s_1 or s_2? Explain! (Do not calculate s_1 or s_2)