

Unit 1: One-Variable Statistics

PRACTICE · SET 2

Name: _____ Date: _____

Show all work. Give each answer as an exact number (fraction or decimal as indicated); round to 2 decimal places only where asked.

1. Find the mean of this data set: 4, 8, 10, 6, 12.

Answer: _____

2. Find the median of this data set: 7, 3, 9, 15, 11, 5.

Answer: _____

3. Find the mode of this data set: 2, 5, 5, 7, 8, 5, 9, 2.

Answer: _____

4. Find the range of this data set: 14, 22, 8, 30, 19.

Answer: _____

5. For the ordered data set 3, 5, 6, 8, 11, 14, 17, 20, find the first quartile (Q1).

Answer: _____

6. For the ordered data set 3, 5, 6, 8, 11, 14, 17, 20, find the third quartile (Q3).

Answer: _____

7. The first quartile of a data set is $Q1 = 12$ and the third quartile is $Q3 = 27$. Find the interquartile range (IQR).

Answer: _____

8. Find the mean of this data set: 15, 15, 18, 20, 22.

Answer: _____

9. Find the median of this data set: 10, 4, 7, 2, 9, 6, 13.

Answer: _____

10. A data set has mean 20 and each of its 6 values is listed as 18, 22, 19, 21, 20, 20. Find the sum of all the values.

Answer: _____

11. Compute the standard deviation of the data set 2, 4, 6, 8, 10 using the population formula (divide by n). Round to 2 decimal places.

Answer: _____

12. The data set 5, 5, 5, 5, 5 has all identical values. Find its standard deviation.

Answer: _____