

Unit 12 Review – Descriptive Statistics

Reviews do NOT cover all material from the lessons but will hopefully remind you of key points. To be prepared, you must study all packets from Unit 12.

Several donations for the “Mr. Bean needs two new front teeth” fund were collected by his 5th period class. Those donations (in dollars) are listed below.

5, 15, 9, 6, 18, 100

Calculate the following values. A calculator may be used but show the work that leads to your answer.

1. Mean

$$\frac{5+15+9+6+18+100}{6}$$

$$\frac{153}{6} = 25.5$$

2. Median

5, 6, 9, 15, 18, 100

$$\frac{9+15}{2} = \frac{24}{2} = 12$$

3. Mode

None

4. Range

$$100 - 5 = 95$$

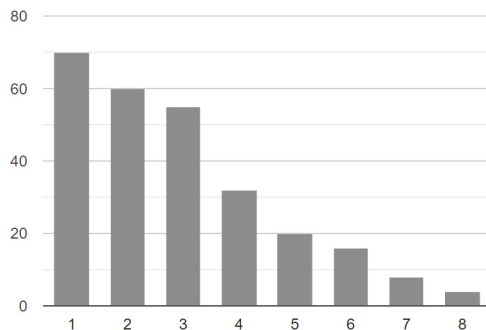
5. Are there outliers? If yes, what number(s)?

Yes, 100

6. Mean Absolute Deviation

$$24.833$$

7. List the mean and median in order from least to greatest for the following data set. You do not need to list the actual values.



median < mean

8. The following data represents the number of correct answers out of 150 problems for students in 1st period and 2nd period:

1st Period: 68, 68, 69, 70, 71, 74, 76, 78, 82, 86, 88, 90, 96, 104, 110

2nd Period: 86, 87, 88, 90, 92, 94, 95, 99, 99, 99, 104, 104, 118, 124, 146



Compare the data sets of the test scores using sentences. Talk about SOCS!

Possible Answer:

Shape: Distributions are slightly skewed right.

Outliers: 2nd period may have an outlier at 146.

Center: The median scores of 1st period is lower.

Spread: Spread is about the same (2nd period is slightly higher)