Bellwork Alg 2B Friday, April 27, 2017

1. Use the two sets of data below.

Set A: 68,57,59,66,65,63,66,58,59,64,65

Set B: 113, 108, 112, 116, 114, 119, 112, 113, 119, 109

- a) Which set of data has more variation? Give a reason for your answer.
- b) What is the range for Set A?
- c) What is the Interquartile Range for Set B?

Use this set of test scores for 2 - 6. Round answers to the nearest tenth. 66,67,70,71,75,75,76,80,81,81,82,84,85,86,90,91,92,95,98,100,101

2. Find the mean and Standard Deviation of this set of data.

$$\overline{x} = \sigma =$$

- 3. Using the mean and standard deviation of this data set what range of values would be within one standard deviation of the mean?
- 4. How many of the data values are within one standard deviation of the mean?
- 5. What percent of data is within one standard deviation of the mean?
- 6. Draw a histogram of this data using the intervals 60-69, 70-79, 80-89, 90-99, 100-109

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Answers

1. Use the two sets of data below.

Set A: 68,57,59,66,65,63,66,58,59,64,65 $\overline{X} = 62.73$ $\sigma = 3.62$

Set B: 113, 108, 112, 116, 114, 119, 112, 113, 119, 109

X=113.5 0=3.5

a) Which set of data has more variation? Give a reason for your answer.

SET A Because it has a greater Standard Deviation (0).

- b) What is the range for Set A? 68 57 = 11
- c) What is the Interquartile Range for Set B? 116-112 = 4

Use this set of test scores for 2 - 6. Round answers to the nearest tenth. 66,67,70,71,75,75,76,80,81,81,82,84,85,86,90,91,92,95,98,100,101

2. Find the mean and Standard Deviation of this set of data.

$$\bar{x} = 83.1$$
 $\sigma = 10.3$

3. Using the mean and standard deviation of this data set what range of values would be within one standard deviation of the mean?

83.1-10.3 70 83.1+10.3 72.8 TO 93.4

- 4. How many of the data values are within one standard deviation of the mean? //3
- 5. What percent of data is within one standard deviation of the mean? $\frac{13}{21} = 161.9\%$

6. Draw a histogram of this data using the intervals 60-69, 70-79, 80-89, 90-99, 100-109

