Bellwork Algebra 2 Tuesday, May 20, 2014

1. Which set of data has more variation? Explain your answer.

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

Set A has more variation because it has a higher Standard Deviation

Use this set of test scores:

66, 67, 68, 68, 71, 75, 75, 76, 78, 79, 81, 82, 84, 85, 86, 88, 91, 95, 98, 99, 100

$$7=\frac{X-X}{\sigma}$$

5. Find your z-score if you had a 90 on the test.

6. What test grade would give a z-score of -1.7?

7. What percent of data is within one standard deviation of the mean?

Use this set of data:

28, 29, 29, 31, 32, 32, 34, 35, 36, 38, 40, 43, 43, 44, 47, 48, 50, 51, 55, 59

- 2. What percentile is 43 at?
- 3. What number is at the 30th percentile?

$$(.30)(20)=6$$

4. 59 is at what percentile?