## Algebra 2 Bellwork Wednesday, June 3, 2015

1. Use the set 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? Explain your answer.
- b) What is the range for Set A?
- c) What is the Interquartile Range for Set B?

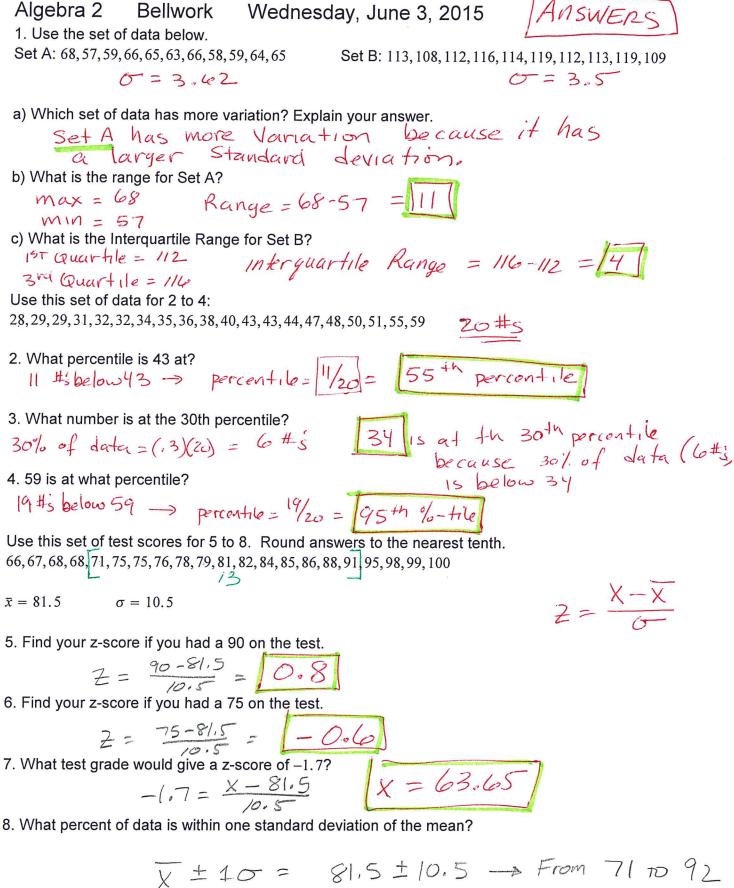
Use this set of data for 2 to 4: 28,29,29,31,32,32,34,35,36,38,40,43,43,44,47,48,50,51,55,59

- 2. What percentile is 43 at?
- 3. What number is at the 30th percentile?
- 4. 59 is at what percentile?

Use this set of test scores for 5 to 8. Round answers to the nearest tenth. 66,67,68,68,71,75,75,76,78,79,81,82,84,85,86,88,91,95,98,99,100

$$\bar{x} = 81.5$$
  $\sigma = 10.5$ 

- 5. Find your z-score if you had a 90 on the test.
- 6. Find your z-score if you had a 75 on the test.
- 7. What test grade would give a z-score of -1.7?
- 8. What percent of data is within one standard deviation of the mean?



 $\frac{13 \pm 5}{21} = 21 \pm 5$   $\frac{13}{21} = 20.5 \pm 5$   $\frac{13}{21} = 20.5 \pm 5$