Algebra 2 · Bellwork   Friday, May 16, 2014

Below is the data for two classes.

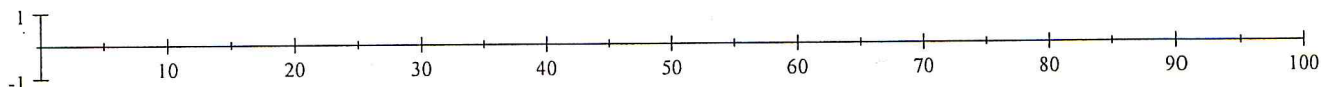**Class A:**

Hwk % completion:	$X_{min} = 17.6$	$Q1 = 52.9$	$Med = 69.1$	$Q3 = 89.7$	$X_{max} = 100$
Overall Grades (%):	$X_{min} = 50.1$	$Q1 = 66.4$	$Med = 76.8$	$Q3 = 81.2$	$X_{max} = 97.7$

Class B:

Hwk % completion:	$X_{min} = 35.3$	$Q1 = 67.6$	$Med = 82.4$	$Q3 = 100$	$X_{max} = 100$
Overall Grades (%):	$X_{min} = 68.6$	$Q1 = 73.7$	$Med = 79.4$	$Q3 = 92.4$	$X_{max} = 96.9$

On the number line below make the box-and-whisker plots for the hwk % completion for each class. Put Class A above the number line and Class B below. Then answer the questions using the plot.
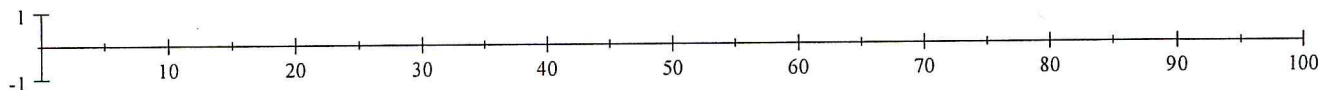
Class A:

Class B:

1. If you completed about 68% of your homework:
a. In Class A about what % of the class completed more homework than you?
b. In Class B about what % of the class completed more homework than you?
2. If you completed about 85% of your homework:
a. In Class A about what % of the class completed less homework than you?
b. In Class B about what % of the class completed less homework than you?

On the number line below make the box-and-whisker plots for the Overall Grades (%) for each class. Put Class A above the number line and Class B below. Then answer the questions using the plot.

Class A:

Class B:

3. If your overall grade is about a 67%:
a. In Class A about what % of the class has a lower grade than you?
b. In Class B about what % of the class has a lower grade than you?
4. a. In Class A what is the range of the middle 50% of the class (Interquartile range)?
b. In Class B what is the range of the middle 50% of the class (Interquartile range)?

5. Find the Mean, Median, and Mode for this data (number of homeworks turned in out of 17).
15, 10, 11, 11.5, 15, 13 ,14, 17, 17, 12, 12, 15.5, 17, 17, 6 (round to nearest hundredth)

$\overline{x} =$ $Med =$ $Mode =$