Bellwork Alg 2B Thur, April 26, 2018

Below is the data for two classes.

Class A:

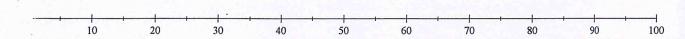
Hwk % completion: $X_{min} = 17.6$ Q1 = 52.9 Med = 69.1 Q3 = 89.7 $X_{max} = 100$

Class B:

Hwk % completion: $X_{\min} = 35.3$ Q1 = 67.6 Med = 82.4 Q3 = 100 $X_{\max} = 100$

Using the number line below make a box-and-whisker plot 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 did completed more homework than you?
- b. In Class B about what % of the class did completed more homework than you?
- 2. If you completed about 85% of your homework:
- a. In Class A about what % of the class did completed less homework than you?
- b. In Class B about what % of the class did completed less homework than you?
- 3. Which class did more hwk? Give a reason.

Use this set of data for 4 to 7:

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

- 4. What percentile is 43 at?
- 5. What number is at the 90th percentile?
- 6. What number is at the 35th percentile?
- 7. What percentile is 28 at?

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Below is the data for two classes.

Class A:

Hwk % completion:

$$X_{\min} = 17.6$$

$$Q1 = 52.9$$

$$Q1 = 52.9$$
 $Med = 69.1$

$$O3 = 89.7$$

$$X_{\text{max}} = 100$$

Class B:

Hwk % completion:

$$X_{\min} = 35.3$$
 $Q1 = 67.6$ $Med = 82.4$

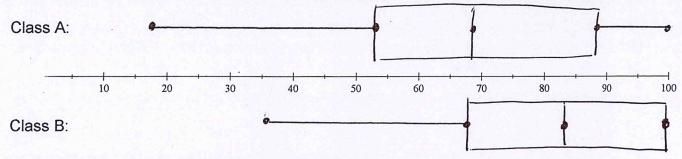
$$O1 = 67.$$

$$Med = 82.4$$

$$Q3 = 100$$

$$X_{\text{max}} = 100$$

Using the number line below make a box-and-whisker plot 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.



- 1. If you completed about 68% of your homework:
- a. In Class A about what % of the class did completed more homework than you? ≈ 50%
- b. In Class B about what % of the class did completed more homework than you?
- 2. If you completed about 85% of your homework:
- a. In Class A about what % of the class did completed less homework than you?
- Between 50% 25%
- b. In Class B about what % of the class did completed less homework than you? ≈ 50 / Between 50% & 75
- 3. Which class did more hwk? Give a reason. Example answer 15 given: class B did more how because about 75% of the class completed about 68% of their how when only about 50% of class A completed that much how.

Use this set of data for 4 to 7:

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

4. What percentile is 43 at?

55th percentile

5. What number is at the 90th percentile?

6. What number is at the 35th percentile?

7. What percentile is 28 at?

