

Name _____

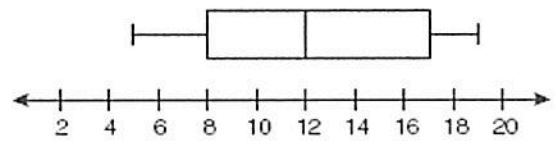
Date _____

8A: Algebra 1

Period _____

Homework

1) Answer the following questions according to the box-plot below



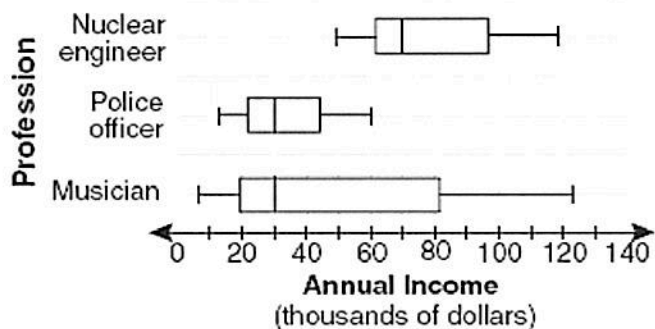
- a) What is the median? _____
- b) What is the lower quartile? _____
- c) What is the upper quartile? _____
- d) What is the minimum value? _____
- e) What is the maximum value? _____
- f) What is the range of the data? _____
- g) What percentage of the data is below the upper quartile? _____
- h) What percentage of data is located between the lower quartile and the median? _____
- i) What percentage of the data is above the median? _____
- j) What percentage of data is below the lower quartile? _____
- k) What is the interquartile range?

2) Listed below are the heights in inches of boys on an 8th grade basketball team. Make a box plot of these data :

60, 60, 66, 66, 66, 67, 68, 69, 69, 69, 69, 70, 70, 71, 71, 71



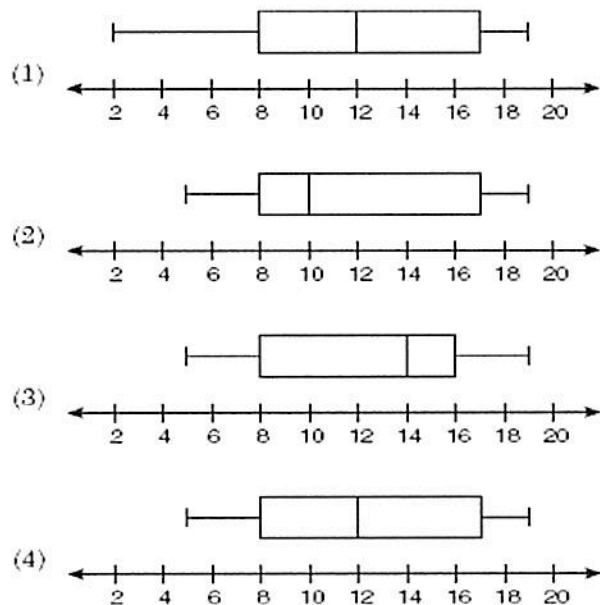
3) The accompanying box-and-whisker plots can be used to compare the annual incomes of three professions.



Based on the box-and-whisker plots, which statement is true?

- (a) The median income for nuclear engineers is greater than the income of all musicians.
- (b) The median income for police officers and musicians is the same.
- (c) All nuclear engineers earn more than all police officers.
- (d) A musician will eventually earn more than a police officer.

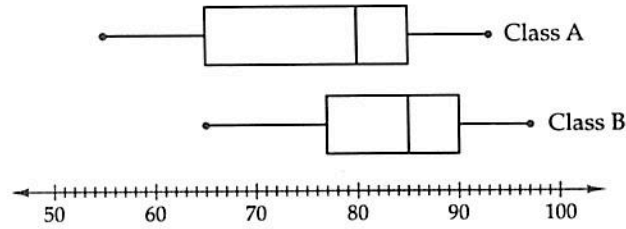
4) The data set 5, 6, 7, 8, 9, 9, 9, 10, 12, 14, 17, 17, 18, 19, 19 represents the number of hours spent on the Internet in a week by students in a mathematics class. Which box-and-whisker plot represents the data?



5) The interquartile range of a data set is 18. The first quartile is 52. Which value could be the median?

- (a) 25 (b) 34 (c) 61 (d) 97

6) These box-and-whisker plots show test scores for two classes:



Which statement is FALSE?

- (a) The interquartile range is greater for class A than for class B.
(b) The second quartile is higher for class B than for class A.
(c) The lowest score was in class A.
(d) Class A did better than class B.

7) Construct a box-and-whisker plot for the data set below:

12, 15, 9, 5, 17, 16, 10, 11, 4, 8, 9, 20, 12

