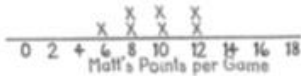


NAME _____

HW # 12

1. Consider the two line plots below that show the number of points per game scored by Matt and Brock during a basketball season. Complete a - h.



- a) What were the most points Matt scored in a game? 12
 b) What were the most points Brock scored in a game? 18
 c) What was the least amount of points Matt scored in a game? 6
 d) What was the least amount of points Brock scored in a game? 0
 e) Calculate the range of points scored by Matt during the season. $\frac{12-6=6}{}$
 f) Calculate the range of points scored by Brock during the season. $\frac{18-0=18}{}$
 g) If you were the coach, which player would you put on your starting line-up and why?

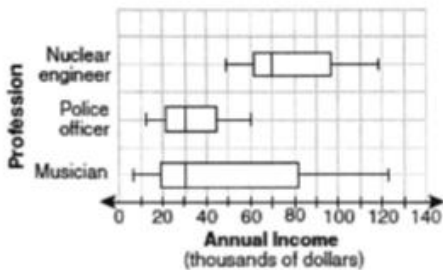
Matt because he's very consistent

- h) Find the measures of center for each data set. Which measures of center best represent each set of data? (Round to tenth)

Matt
 Mean: $\frac{66}{7} = 9.4$
 Median: 10
 Mode: 8, 10, 12

Brock
 Mean: $\frac{48}{7} = 6.9$
 Median: 6
 Mode: 0, 6

2. Multiple Choice: 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?

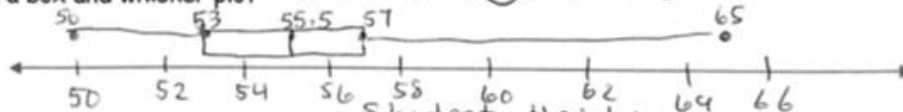


- A) The median income for nuclear engineers is greater than the income of all musicians.
 B) All nuclear engineers earn more than all police officers.
 C) The median income for police officers and musicians is the same.
 D) A musician will eventually earn more than a police officer.

3. The following data represents the heights of 14 students in inches.

52, 55, 57, 54, 56, 50, 56, 58, 57, 65, 58, 56, 54, 58

- a) Create a box and whisker plot



- b) What is the interquartile range of the set of data (IQR)?

$57 - 53 = 4$

- c) What percentage of students scored between a 53 and 57?

50%