1. Dr. Wittgenstein is researching the time it takes people to fall asleep at night. In his lab, he records the time it takes each of his subjects to fall asleep, in minutes, and compiles the data set shown below.
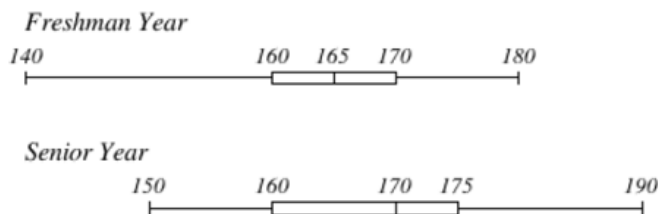
$$\{22, 8, 19, 14, 25, 95, 32, 7, 14, 20, 18, 10, 22, 17, 27, 16\}$$

Identify the following:

Min: _____ Q_1: _____   Median: _____   Mean: _____ Q_3: _____   Max: _____
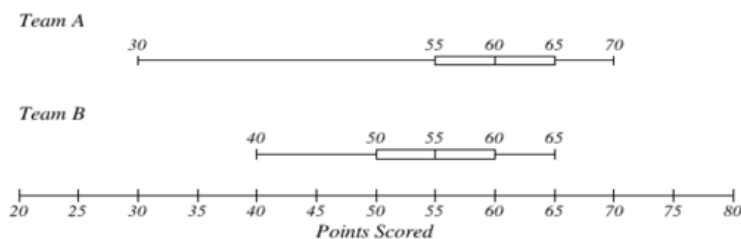
IQR: _____   Range: _____

2. Senior and freshman year amount of time spent on homework was compared in minutes and the results displayed in the boxplot below.

Freshman Year
140   160   165   170   180

Senior Year
150   160   170   175   190

A) For the Freshman, what percentage of freshman spent between 160 and 170 minutes on homework?

_____

B) For the Freshman, 25% of the data is below what value? _____

C) For the Seniors, what is the range of the data? _____

D) Which year (Senior or Freshman) represents 50%of the data that is 165 minutes or less? _____

E) What value for Seniors represents 75% of less of the data? _____

3. Team A and Team B scored points and were compared using a box plot.

Team A
30   55   60   65   70

Team B
40   50   55   60   65

20   25   30   35   40   45   50   55   60   65   70   75   80
Points Scored

Compare the maximum values, and then identify who had the higher maximum.

Team A Max: _____   Team B Max: _____

4. The data below are the last 6 Unit Test Scores:

1st period

2nd period

3rd period

4th period

Points Scored on Unit 6 Test
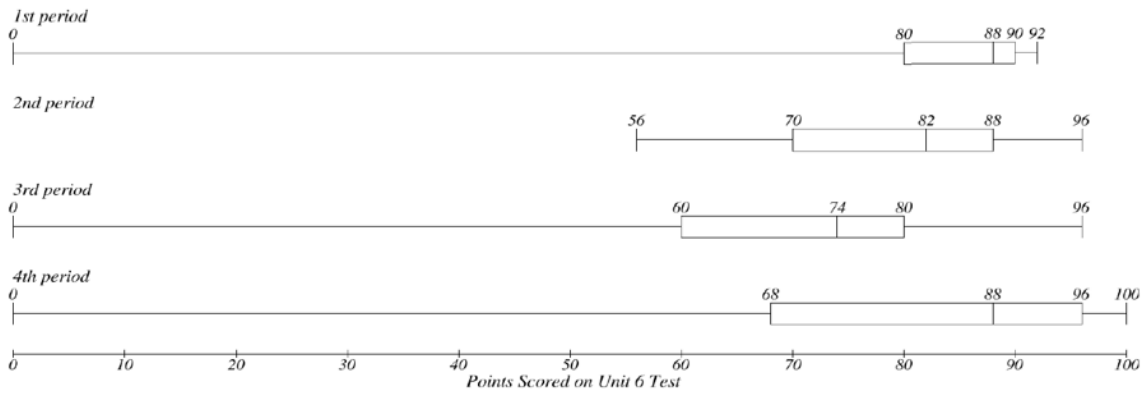
A) Which class had the lowest Q_3? _____

B) Which class had the highest IQR? _____

C) Which class had the highest minimum value? _____
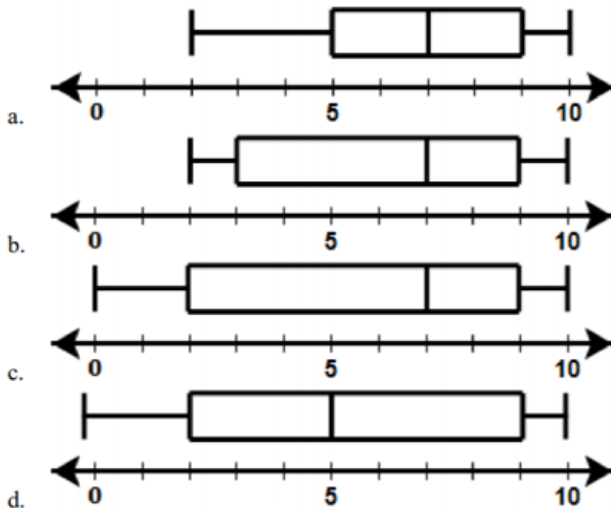
5. Find the mode for the data set.

Hits in a Round of Hacky Sack
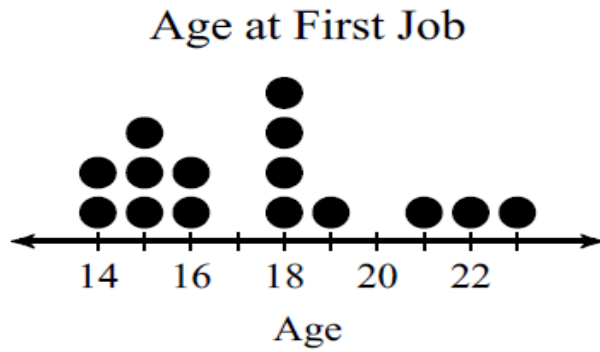

Hits
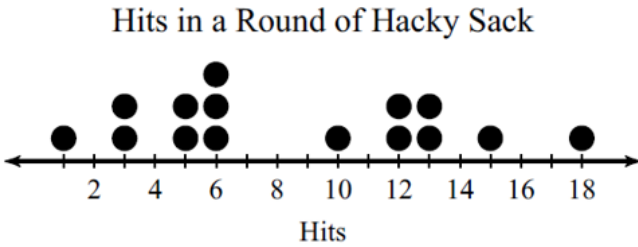
A) 4   B) 5 and 8   C) 6   D) 13

6. Consider the following ordered data set.

$\{2, 3, 5, 7, 7, 9, 10\}$

Which is the correct box and whisker plot of the data above?

a.

b.

c.

d.

Use the below dot plot to answer the following questions:

Age at First Job

Age

7. What is the mean of the above dot plot? _____

8. What is the center of the above dot plot? _____

9. What is the spread of the above dot plot? _____

10. How many people are represented on the above dot plot? _____

11. How many people were at least 18 when they started their first job? _____