Name: _____ Date: _____ Period: _____

Inferences Unit

Box it Up

1. The following data are the ages of students' siblings: 5, 7, 9, 11, 13, 11, 9, 2, 6, 12.

Find the following information:

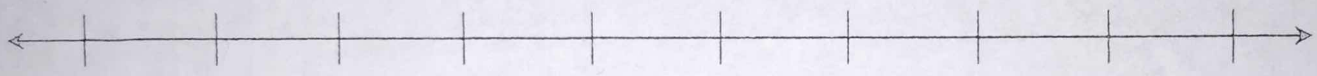
a. Mean_____ b. Median_____

c. Mode d. Range_____

e. Q1 (Lower Quartile_____ f. Q3 (Upper Quartile) _____

g. IQR_____

h. Make a box and whisker plot using a number line with appropriate scale



2. The following numbers are the vertical jumps, in inches, of students:
21, 96, 59, 35, 48, 69, 59

Find the following information:

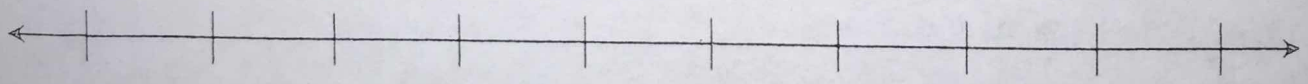
a. Mean_____ b. Median_____

c. Mode d. Range_____

e. Q1 (Lower Quartile_____ f. Q3 (Upper Quartile) _____

g. IQR_____

h. Make a box and whisker plot using a number line with appropriate scale

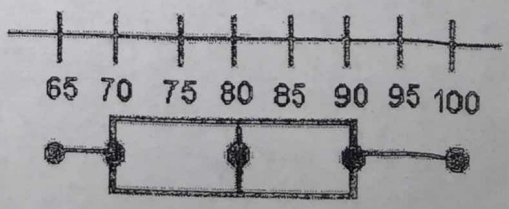


For questions 3-5, use the following Box and Whisker Plot:

3. What does the 70 represent? _____

4. What does the 65 represent? _____

5. What does the 80 represent? _____



Name _____

LESSON 9-4

Practice B

Variability

Find the first and third quartiles for each data set.

1. 37, 48, 56, 35, 53, 41, 50

first quartile: _____

third quartile: _____

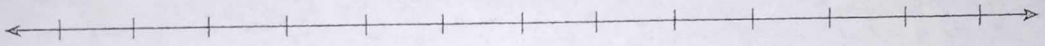
2. 18, 20, 34, 33, 16, 44, 42, 27

first quartile: _____

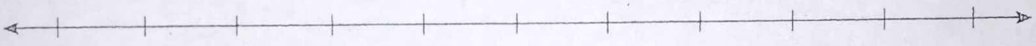
third quartile: _____

Use the given data to make a box-and-whisker plot.

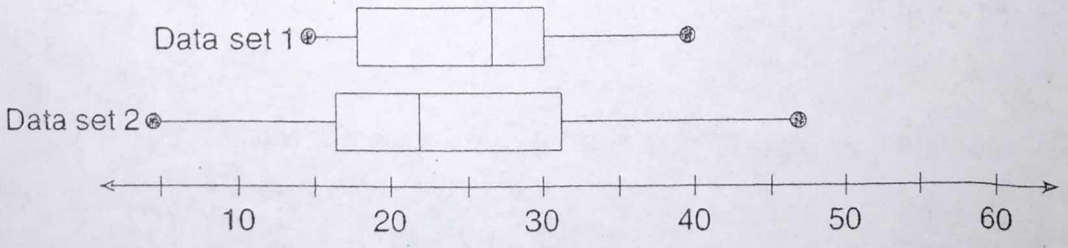
3. 55, 46, 70, 36, 43, 45, 52, 61



4. 23, 34, 31, 16, 38, 42, 45, 30, 28, 25, 19, 32, 53



Use the box-and-whisker plots to compare the data sets.



5. Compare the medians and ranges.

_____

_____

6. Compare the ranges of the middle half of the data for each set.

_____

_____