

Name: _____

Data Summary: ~~Stem-and-Leaf Plot~~ and Box-and-Whisker Plot

For twenty days, John counted how many cars drove past his home at 5 P.M. The results are shown below. Using this data, answer the questions below.

Number of Cars

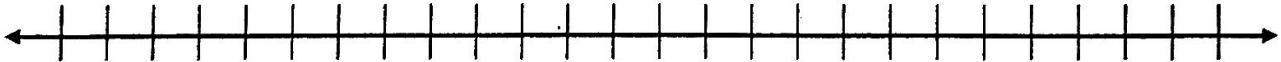
13, 8, 15, 26, 31, 9, 3, 20, 13, 28, 31, 8, 19, 27, 20, 13, 23, 30, 12, 25

1. Put numbers in order from least to greatest.

2. Calculate the:

- a. Mean = _____
- b. Median = _____
- c. Mode = _____
- d. Range = _____

3. Create a box-and-whisker plot of the data set.



4. Identify the:

- a. Lower Extreme (LE) = _____
- b. Lower Quartile (LQ) = _____
- c. Median (M) = _____
- d. Upper Quartile (UQ) = _____
- e. Upper Extreme (UE) = _____
- f. Interquartile Range (IQR) = _____

5. What percentage of the data is between 12.5 and 26.5? _____

6. What percentage of the data is greater than 12.5? _____

7. What percentage of the data is less than 19.5? _____

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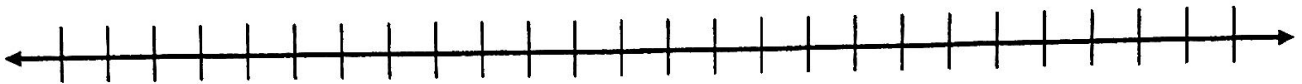
Box-and-Whisker Plots: Notes (Practice)

You Try: For each set of data, complete each table and make a box-and-whisker plot.

1. Number of Cousins: 8, 2, 7, 4, 12, 8, 11

<u>Lower Extreme</u>	<u>Lower Quartile</u>	<u>Median</u>	<u>Upper Quartile</u>	<u>Upper Extreme</u>

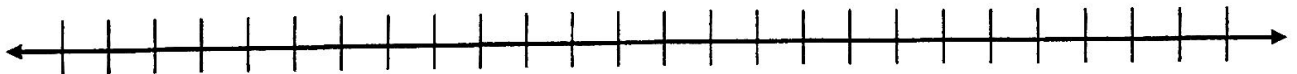
❖ What is the interquartile range? _____.



2. Hours of TV Watched During the Weekend: 15, 16, 7, 8, 5, 5, 3, 4, 8, 12, 10, 9, 6, 13

<u>Lower Extreme</u>	<u>Lower Quartile</u>	<u>Median</u>	<u>Upper Quartile</u>	<u>Upper Extreme</u>

❖ What is the interquartile range? _____.



3. Test Scores: 86, 72, 91, 84, 76, 90, 80, 90, 78, 90

<u>Lower Extreme</u>	<u>Lower Quartile</u>	<u>Median</u>	<u>Upper Quartile</u>	<u>Upper Extreme</u>

❖ What is the interquartile range? _____.

