

Practice quiz

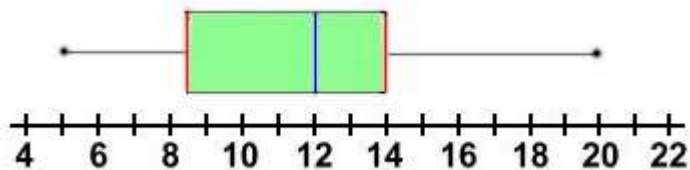
Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. For each set of data, determine the 5 number summaries (the lower extreme, Q1, median, Q3, upper extreme). Construct the resulting box and whisker plot and find the IQR. (10pts)
  - a. 5, 3, 8, 6, 1, 3, 9, 7, 4, 2

- b. 3, 6, 12, 14, 16, 12, 11, 10, 17, 18, 16

2. The box and whisker plot shown displays the temperatures for the month of October.
  - a. What was the highest temperature? \_\_\_\_\_ (1 pt)
  - b. What was the median? \_\_\_\_\_ (1pt)
  - c. What was the range? \_\_\_\_\_ (1pt)
  - d. Identify the lower quartile (Q1) and the upper quartile (Q3). Q1=\_\_\_\_ Q3=\_\_\_\_ (2 pts)
  - e. What percent of temperature were lower than 8.5? (1pt)
  - f. The top 25% of the temperatures are between what two values? (2 pts)
  - g. Within what range of temperatures will the middle 50% of the data occur? (2 pts)



3. Find the MAD, Variance and Standard Deviation for the following data set.

60, 90, 80, 40, 50, 80, 80, 100

4. Describe the four different sampling methods (Exclude Convenience)