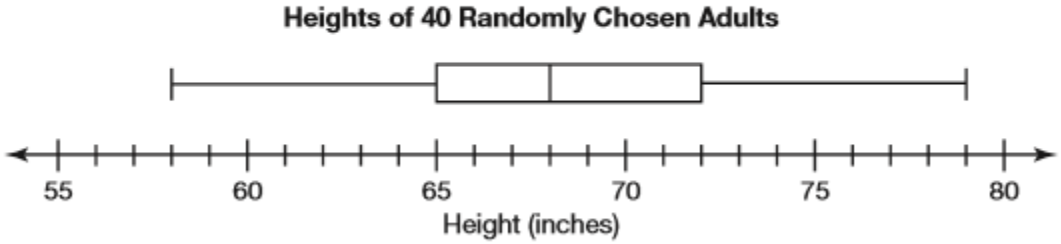
Algebra I – 1-Variable Statistics Name _____

1) Answer the following questions with the given data: 9, 15, 26, 30, 32, 32, 35, 36, 38, 40, 40, 45, and 59.
   a. Find the mean, median, mode, and range.
   b. Find the 5 number summary.
   c. Create a box and whisker plot

   d. Find the IQR
   e. Determine if the data has any outliers.
   f. Redraw the box and whisker plot if there are any outlier.

2)

Analyze the given box-and-whisker plot which displays the heights of 40 randomly chosen adults. Use the box-and-whisker plot to answer each question.



   a. State the 5 number summary.
   b. What is the height range of the middle 50% of the surveyed adults?
   c. How many of the surveyed adults are exactly 68 inches tall?
   d. What percent of the surveyed adults are 68 inches tall or shorter?
   e. How tall is the tallest surveyed adults?
   f. How many of the surveyed adults are at least 58 inches tall?

3) Listed are the scores scores on a recent math quiz.
   The data are 12, 14, 8, 13, 12, 14, 5, 13, 14, 3, 15, 15, 10, 13, 12, 0, 14, 11, 14, 13, and 10.

   a. Construct a dot plot to displace the scores.
   b. Find the mean, median, mean, and range.

   c. Is the data skewed?

   d. Is the mean or median higher?