Box and Whisker Plot

I.   **List numbers in order from least to greatest.**

II. Identify the following five numbers:

    a.   **smallest number** in set of data (lower extreme)
    b.   **first quartile**- median of the lower half of numbers. (lower quartile)
    c.   **median** of the entire set of data. (second quartile)
    d.   **third quartile**-median of the upper half of number. (upper quartile)
    e.   **largest** number in set of data. (upper extreme)

II.   **Plot the five numbers on a number Line.**

- **Draw a box** extending from the first quartile to the third quartile.
- **Draw a line** through the median (second quartile)
- **Draw lines (whiskers)** extending from each end of the box to the smallest number and the largest number . (extremes)

III. **Inter-quartile range-** **The difference between the 3rd quartile and the 1st quartile. (the length of the box)**

Example I.

4,29,32,17,13,3,10,36,31,26,8,21

Example II.

36,19,24,40,16,32,45,28,37,31,30,43,17