

**Steps to make a box and whisker plot with the TI 83 calculator.**

1. Turn on the Stat Plot.  Press [2nd] [Stat Plot].  Press 'Enter'.  Press 'Enter' again to turn Plot 1 on.

2. Select a Box Plot icon.  The first one will show outliers.  The second icon will not show the outliers.

3. Enter Data in L1 of [Stat]

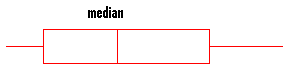
4. View Box Plot by going to [ZOOM] 'Stat' (#9). Or use the arrow keys to scroll down to number 9.  Press 'Enter'.

5. Press [Trace] and the arrow keys to view the values of the Min, Q1, Median, Q3, and Max.

6. Go to the [2nd] [Stat]. In Plot1, use the arrow keys to the 2nd Box Plot.  Press 'Enter'.  This plot will not show the outliers.

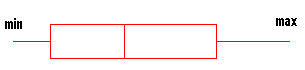
**Answering questions based on the box and whisker plot**

⎕ When asked about the center of the data – look to the median, which is found in the middle of the box and whisker plot

 The median is 34

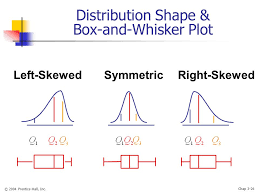
20 25 30 35 40 45 50 55

⎕ When asked about the spread of the data – think about range, which is the smallest number subtracted from the maximum number

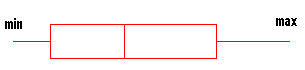
 The spread of this data is 55 – 20 = 35

20 25 30 35 40 45 50 55

⎕ Determine the shape of the box and whisker plot



⎕ When you are asked about the data, write a true statement about the data. For Example, the lowest temperature is 20˚ or the median is 35 ˚



20 25 30 35 40 45 50 55