# Notes on Creating Box Plots

Steps:

① Put all numbers in order from smallest to biggest.

② Find Lower Extreme (LE) - smallest #

③ Find Upper Extreme (UE) - highest #

④ Find the median of all of the numbers. This is called Q2.

⑤ Find the median of the lower half of the data set. This is Q1.

⑥ Find the median of the upper half of the data set. This is Q3 (Quartile 3)

⑦ Draw a number line; plot your LE, UE, Q1, Q2, Q3.

⑧ Connect the LE to Q1, UE to Q3 and draw your box.

⑨ Find Interquartile Range (IQR)
$$IQR = Q3 - Q1.$$

Example on Next Page.