Name:_____

Statistics-Day #4 **Warm-Up** Date:_____

Box and Whisker Plots

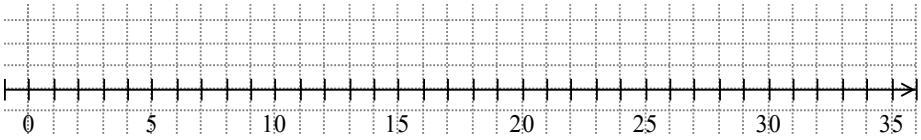
Statistics assumes that your data points (the values in your list) are clustered around some central value. The "box" in the box-and-whisker plot contains, and thereby highlights, the middle half of these data points.

Make your own box and whisker plot:

3 , 8 , 1 5 , 2 2 , 3 5 , 1 3 , 5 , 6 , 1 8 , 1 9 , 2 , 2 0 , 2 1 , 3 0 , 2 6 , 1 5 , 6 , 3 , 1 6 , 2

a) Sort the data, complete the **5-Number Summary,** make a *Box and Whisker* graph, then complete the additional information.

b) What is the acceptable range of the data?



5-Number Summary:

Min = ____

Q_1 = ____

Med = ____

Q_3 = ____

Max = ____

Range = _____

IQR = _____

IQR*1.5 = _____

Fences:

$Q_1 - 1.5(IQR)$ = ____

$Q_3 + 1.5(IQR)$ = ____