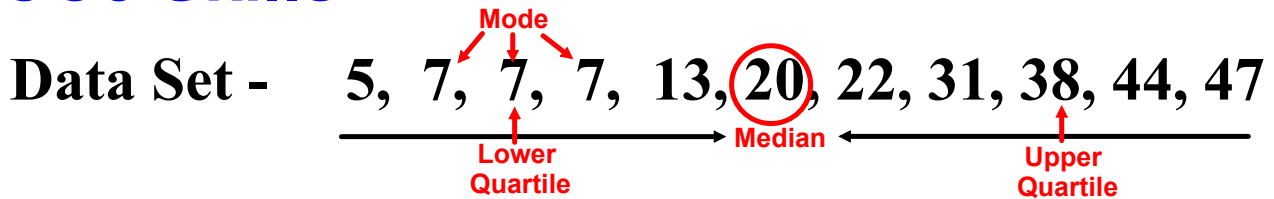


CC8 Skills



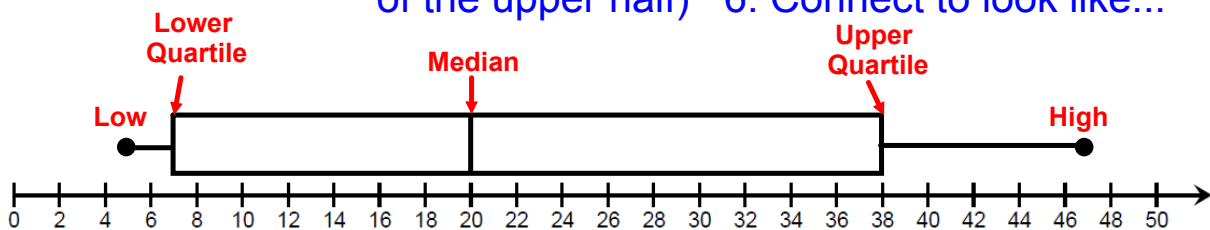
Mean - add all the numbers $5+7+7+7+13+20+22+31+38+44+47$
 Average then divide by the number of numbers $\frac{\quad}{11}$
 21.90

Median - put the numbers in order from least to greatest then count in
 Middle from both ends to locate the middle data value. If there are
 2 numbers in the middle...add them and divide by 2.
 20

Mode - find the data value that happens the most.
 Most
 7

Range - difference between high and low $47 - 5 = 42$
 42

Box and Whiskers - 1. Plot the low 2. Plot the high 3. Plot the
 median 4. Plot the lower quartile (median of
 the lower half) 5. Plot the upper quartile (median
 of the upper half) 6. Connect to look like...



Interquartile Range - difference between the upper quartile and the
 lower quartile $38 - 7 = 33$
 33

Mean Absolute Deviation - 1. subtract each data value from the
 center of the data set (the mean) 2. Add the absolute values
 (expressed as positives) of all these differences. 3. Divide this sum by
 the number of numbers.

$$13 \quad 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9 \ 21.9$$

$$-5 \ -7 \ -7 \ -7 \ -13 \ -20 \ -22 \ -31 \ -38 \ -44 \ -47$$

Absolute Values 16.9 14.9 14.9 14.9 8.9 1.9 0.1 9.1 16.1 22.1 25.1

$$\frac{16.9 + 14.9 + 14.9 + 14.9 + 8.9 + 1.9 + 0.1 + 9.1 + 16.1 + 22.1 + 25.1}{11} = \frac{144.9}{11} = 13.172$$

13.172
 M.A.D.