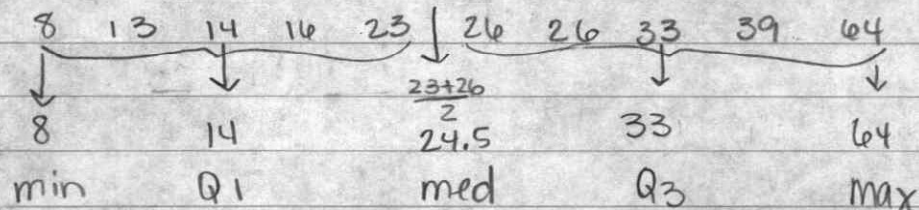


Box Plots

33, 23, 8, 13, 26, 64, 26, 39, 16, 14

* Put in order



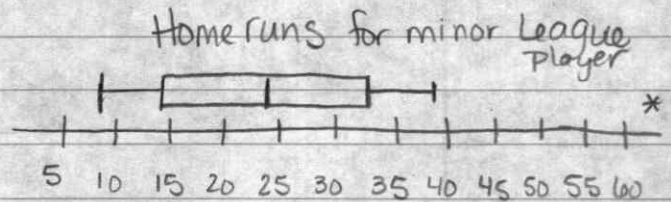
*note on video

one of the 26's is 28
Does not affect
box plot data

side
note

* a box plot blot is a way to organize data into 4 equal sections. meaning the same # of data points are in each section

- 1) Draw horizontal line
- 2) label intervals, need to be the same interval
- 3) Place a line over the Q1, med, Q3



- 4) Create a box
- 5) to find outliers \rightarrow find IQR = $Q_3 - Q_1 \rightarrow 33 - 14 \rightarrow 19$
 upper fence $\rightarrow Q_3 + 1.5(IQR)$
 $\rightarrow 33 + 1.5(19)$
 $\rightarrow 61.5$ * anything over 61.5 is an outlier
 lower fence $\rightarrow Q_1 - 1.5(IQR)$
 $\rightarrow 14 - 1.5(19)$
 $\rightarrow 14.5$ * anything lower than 14.5 is an outlier
 64 is an outlier

- 6) put a whisker over min * since not an outlier & connect to box
- 7) put a * over max = outlier
- 8) put a whisker over largest non-outlier # in this case 39

* ignore about nspire; we do not use that calc