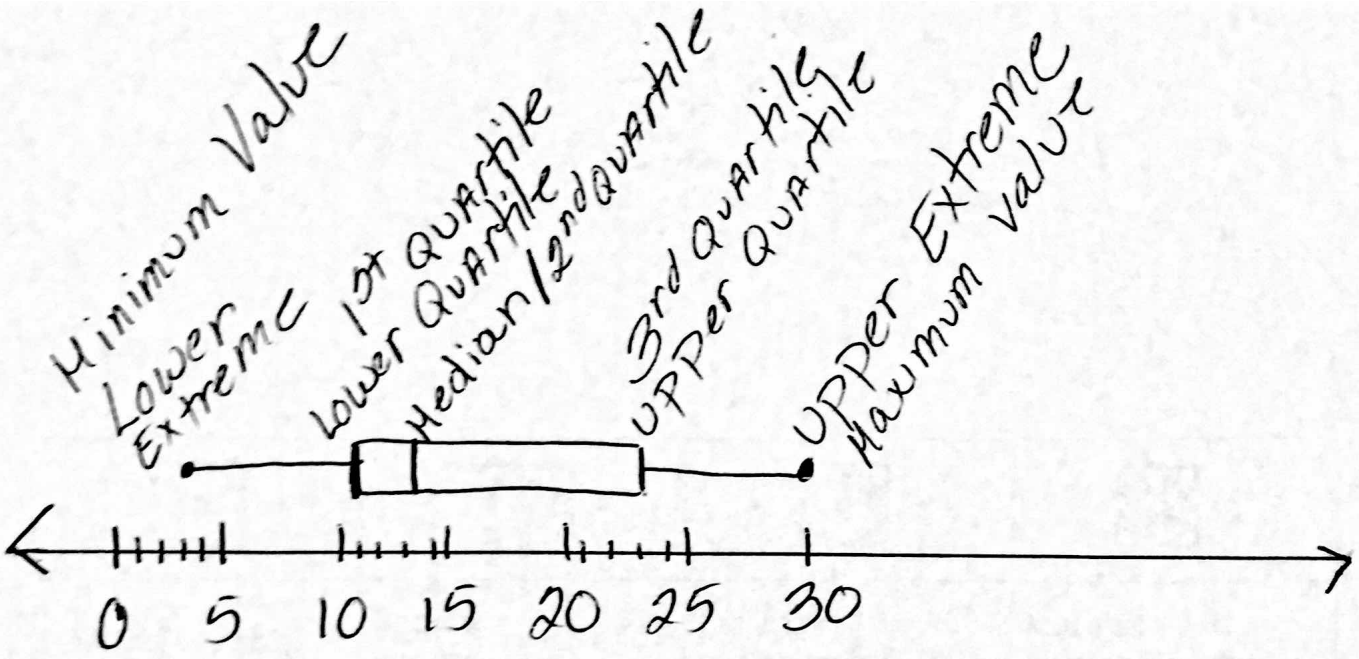


What does a box-and-whisker plot display?

1. measures ~~&~~ variability of data
2. use 5 number to create 4 sections (Not all are data pieces may be the average of 2)
3. Data is divided into quarters each number represents $\frac{1}{4}$ of the data.

Box and Whisker

* Odd Set

① order data

5, 8, (9), 10, 11, [12], 14, 16, (19), 22, 25

② Find Median - [Box-it]

③ Lower section of numbers
Find Median - (Circle it)

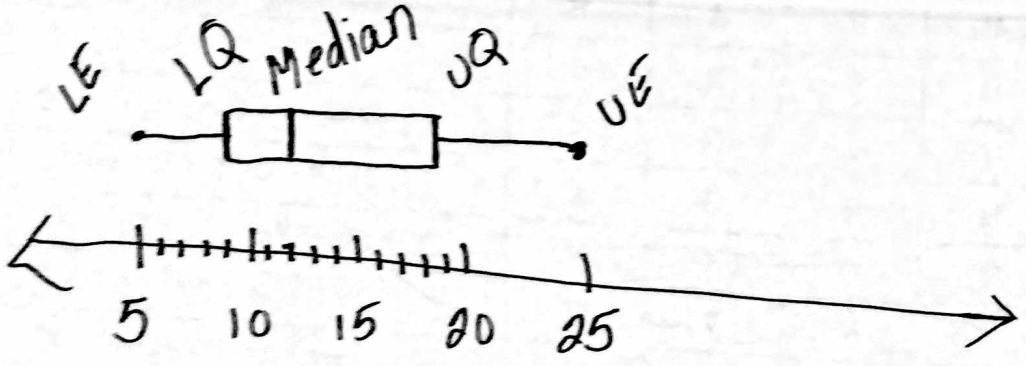
④ Upper section of numbers
Find Median - (Circle it)

⑤ Find the extremes (least value, minimum value) and (greatest value, maximum value)

* smallest number
* largest number

underline

* Create the graph
* with 5 pieces of data



Create Box-&-Whisker

Notes: Even set data

3, 7, 10, 11, 12, 12, 15, 18, 21, 26, 29, 30

10.5 | 13.5 | 23.5

1. Order data (least to greatest)
2. Find Median - Box it
$$\begin{array}{r} 12 \\ +15 \\ \hline 27 \div 2 = 13.5 \end{array}$$
3. Find Median of lower set of data.
$$\begin{array}{r} 10 \\ +11 \\ \hline 21 \div 2 = 10.5 \end{array}$$
4. Find Median of upper set of data.
$$\begin{array}{r} 21 \\ +26 \\ \hline 47 \div 2 = 23.5 \end{array}$$
5. Underline LE & UE