Box Plot

a method of visually displaying a distribution of data values by using the median, quartiles, and extremes of the data set. The box shows the middle 50% of the data.

quartiles

when the data is divided into four groups having equal frequencies

Lower quartile LQ

the median of the lower half of a set of numbers

Upper quartile

the median of the upper half of a set of numbers

May 6-7:21 AM

Interguartile range IQR

the range of the middle half of a set of numbers

minimum value

the lowest value in a set of data

maximum value

the greatest value in a set of data

9, 8, 10, 15, 7, 20, 13, 23, 17, 22, 8

5 number summary

minimum value lower quartile median upper quartile maximum value

May 6-7:31 AM

How to make a box and whisker plot

- find median of data

-plot median (draw a line)

-find lower quartile (median of lower half)

-plot lower quartile (draw a line)

- find upper quartile (median of upper half)

-plot upper quartile (draw a line)

-connect lines to form a box

-plot minimum (use a dot)

-plot maximum (use a dot) -draw whiskers

median= LQ=

UQ=

minimum=

maximum=

Apr 28-7:45 AM

Apr 28-7:50 AM