

Box and Whiskers

Box and Whiskers graphs are a simple, linear way to analyze sets of continuous numerical data. They are especially helpful in determining whether or not there are significant differences between sets of data.

A box-and-whiskers shows the distribution of data along a number line. There are four components to a box and whisker plot: two whiskers and two boxes. Each component makes up 25% of the data regardless of how big or how small it is.



A box and whisker plot is a way of displaying the distribution of data based on a five-number summary. The five-number summary consists of the minimum, first quartile, median, third quartile, and the maximum.

The five-number summary is comprised of:

1. Lower extreme: also called the minimum, it is the smallest number in the set of data
2. Lower quartile: also called Q1, it is the median of the lower set of numbers
3. Median: also called Q2, it is the value exactly in the middle of an ordered set of numbers
4. Upper quartile: also called Q3, it is the median of the upper set of numbers
5. Upper extreme: also called the maximum, it is the largest number in the set of data



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