

Data Analysis

Quantitative number numerical

Continuous can be split

Discrete countable values

Categorical type group / set

Ordinal values that are ranked

Nominal " " aren't "

Measures of Center ideas on average

+ visuals

Measures of Spread ideas on how subjects differ

Standard deviation → spread of a group of numbers for mean

Variance → average degree to which each point differ

Mode → value that appears more often

Interquartile range → spread of data

→ Spread / Shape / Center / Outliers

Center → mean, median, mode

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↳ not most accurate, contains decimals

Median → middle value

Notation math language

2 3 4 7 | 8 8 12 15

Column → random variable → UpperCase letter X set of values

observed variable → LowerCase letter x n one value

Sigma $\sum_{i=1}^n x_i$

Mean (\bar{x}) = $\frac{1}{n} \sum_{i=1}^n x_i$

1.428 | 4.28

3.774228

8.1667

8.1667

4.1667

4.1667

2 5 6 7 | 9 10 11 13

5.5

10.5

1, 1, 2, 4, 4 | 5, 10, 10, 10, 2

23.55