

[illegible]

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Measures of Dispersion/Spread

Range
 - all your numbers - smallest value

Interquartile Range (IQR)

$$IQR = Q_3 - Q_1$$

$$Q_1 = \text{value at } (n+1)/4$$

$$Q_3 = \text{value at } 3(n+1)/4$$

Standard Deviation

1. Find the mean

2. Subtract the mean from each value

3. Square each of the differences

4. Find the mean of the squared differences

5. Take the square root of the result

Example:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Mean = 5.5

Differences: -4.5, -3.5, -2.5, -1.5, -0.5, 0.5, 1.5, 2.5, 3.5, 4.5

Squared Differences: 20.25, 12.25, 6.25, 2.25, 0.25, 0.25, 2.25, 6.25, 12.25, 20.25

Mean of Squared Differences: 10.5

Standard Deviation: $\sqrt{10.5} \approx 3.24$

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Measures of Central Tendency/Averages

Mode - most common value
 Modal Class - class with the highest frequency

Median
 Ordered data - $\frac{n+1}{2}$ th value
 Continuous data with frequency - $\frac{1}{2}(n+1)$ th value

To estimate median from grouped data

- Find cumulative frequency of frequencies until you get to $\frac{1}{2}(n+1)$ th value and find the class interval with the median
- Find how many more values you require than what you get for the median
- Divide that number by the frequency for that class
- Multiply that result by the class width
- Add your answer to the lower bound for the class interval

Estimated median = $L + \frac{\frac{1}{2}(n+1) - F}{f} \times w$ where

- L = the lower boundary of the class interval containing the median
- n = the number of values
- F = the cumulative frequency of the class interval below the median
- f = the frequency of the median class interval
- w = the width of the class interval

Mean $\bar{x}$
 Discrete data - $\bar{x} = \frac{\sum x}{n}$ $\sum x$ = sum of all values
 n = number of values

Continuous data - $\bar{x} = \frac{\sum fx}{\sum f}$ f = frequency
 x = first column (midpoints for grouped data)

Weighted Mean - for data that has different number of values or weights for each group

$$\text{Weighted Mean} = \frac{\sum x \times \text{weight}}{\sum \text{weights}}$$

Geometric Mean - $\sqrt[n]{x_1 \times x_2 \times \dots \times x_n}$

Gcse Statistics Revision Guide For Dummies

Thomas Griffiths



Gcse Statistics Revision Guide For Dummies:

The book delves into Gcse Statistics Revision Guide For Dummies. Gcse Statistics Revision Guide For Dummies is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gcse Statistics Revision Guide For Dummies, encompassing both the fundamentals and more intricate discussions.

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