Calculating the Mean

To calculate the mean, add all the numbers in a group together and divide the total by how many numbers there are. The mean helps us understand what it would look like if the data was "evened out" and everyone had the same amount.

To calculate the mean:

- **1.** Add Up All Data Points: Combine the values of all the numbers in the group.
- **2. Divide by the Total Count:** Divide the sum by the number of data points.
- **3. Find the Mean:** State your result, which is the mean of the data.

Example: Calculate the mean amount of pocket money your friends get.

How	How much pocket money do you get? (£)				
Adam	Bashir	Connie	Django	Enrique	
5	10	10	15	20	

5 + 10 + 10 + 15 + 20 = 60

5 - 10 - 10 - 20 00

60 ÷ 5 = 12 THE MATHS ₩ HUB

Answer: The mean amount of pocket money your friends get is £12.

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Finding the Median

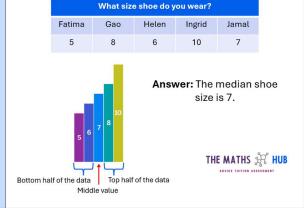
To find the median of a data set, arrange the numbers in ascending order (smallest to largest). Identify the middle value, which splits the data into two equal halves. If the data set contains an odd number of <u>values</u>, the median is simply the middle number. If there is an even number of values, calculate the median by averaging the two middle numbers.

To find the median:

- 1. Sort the Data in Order: Arrange the numbers from smallest to largest.
- 2. Locate the Middle Value(s):
 - For an odd number of values, the middle one is your median
 - For an even number, take the two middle values, add them together, and divide by two to calculate the median.
- 3. State the Result: This is the median of the data.

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Example: Ask your friends what size shoe they wear and find the median.



Finding the Mode

To find the mode of a data set, arrange the numbers in ascending order (smallest to largest). Identify the value that occurs most frequently. This is the mode. It is possible for data to have one mode, two, modes, several modes or no modes.

To find the mode:

- **1. Sort the Data in Order:** Arrange the numbers from smallest to largest.
- **2. Find the Frequency:** Identify which number appears most often.
- 3. State the Result: This is the mode of the data.

Example: Ask your friends what video game they play the most and find the median.

Video game	Frequency	
Minecraft	2	
Fortnite	2	
Mario Kart	1	

What video game do you play the most?

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Answer: Both Minecraft and Fortnite are the modes because they are mentioned the most.