

Max's Magnificent Statistics Masterclass

Master the Data and Become a Maths Detective!

- To calculate the mean of a data set, you must find the sum of all the values and then divide that total by the number of values in the set.
- The range is found by subtracting the smallest value from the largest value in a set of data. It tells us how spread out the numbers are.
- When using a line graph, the horizontal axis (x-axis) usually shows time or intervals, while the vertical axis (y-axis) shows the quantity or value being measured.
- A pie chart represents data as slices of a circle. The total value of all slices must always add up to 100% or 360 degrees.
- Frequency tables help us organise large amounts of information by grouping data into categories and counting how often each piece of data appears.
- If Max buys 5 notebooks at £2.40 each, he calculates the total cost by multiplying the price by the quantity: $5 \times £2.40 = £12.00$.

Did you know? Did you know that statistics have been used for thousands of years? Ancient civilisations like the Egyptians used data to count their grain harvests and track the flooding of the River Nile to ensure everyone had enough food for the year!

Key vocabulary: Mean · Range · Frequency Table · Line Graph · Pie Chart · Data Set · Average