

Max's Statistics Challenge: Mastering Data

Learning objective: To interpret, construct, and solve problems using line graphs, tables, and timetables in accordance with Year 5 statistics objectives.

Use these flashcards to test your knowledge of statistics. Max the monkey has provided these tricky questions to help you prepare for your upcoming assessments. Read the definition or question on the left and check your understanding against the answer on the right.

What is a line graph primarily used for?

A line graph is used to display data that changes over time, showing a continuous trend.

Define 'discrete data'.

Data that can only take specific, separate values, such as the number of pupils in a classroom or the number of pets owned.

What is the difference between an x-axis and a y-axis?

The x-axis is the horizontal line at the bottom, while the y-axis is the vertical line on the side of a graph.

If a table shows the arrival and departure times of buses, what is this called?

A timetable.

Max bought three books costing £4.50, £3.20, and £2.80. What is the total cost?

£10.50.

Explain why we use a 'key' in a multi-line graph.

A key is used to identify which line represents which category, helping to distinguish between different data sets clearly.

What does a 'rising trend' on a line graph indicate?

It indicates that the value being measured is increasing over the specified period of time.

Compare and contrast a table and a bar chart.

Both display data, but a table uses rows and columns to show exact values, whereas a bar chart uses visual bars to allow for easier comparison of quantities.

Justify why it is important to have equal intervals on the axes of a graph.

Without equal intervals, the visual representation of the data would be distorted, making it impossible to read the information accurately.

What might happen if you misread the scale on the y-axis of a line graph?

You would incorrectly interpret the magnitude of change, leading to inaccurate conclusions about the data.