

Max's Magnificent Statistics Flashcards

Learning objective: To understand and use simple statistics, including pictograms, bar charts, and tables, as required by the Year 3 National Curriculum.

Max the monkey has prepared these flashcards to help you master statistics! Use them to test your knowledge of how we collect and show data. Read the front, try to answer, then check the back.

What is 'data'?

Data is information or facts that we collect, usually by counting or measuring things.

What is a 'tally chart'?

A way of recording data using marks to represent items (e.g., four vertical lines with one diagonal line across to make five).

What is a 'pictogram'?

A chart that uses pictures or symbols to represent data.

In a pictogram, what is a 'key'?

A guide that explains what each symbol represents (for example, one star symbol might equal 2 points).

What is a 'bar chart'?

A diagram that uses rectangular bars of different heights to show and compare amounts of data.

What is a 'scale' on a bar chart?

The numbers on the axis that show the values, which can go up in 1s, 2s, 5s, or 10s.

If Max counts 12 bananas, how would you show this on a tally chart?

Four vertical lines with a diagonal line through them (5), another set of five (10), and two vertical lines (12).

Max sold 3 apples for £1 each and 2 pears for £1 each. How much money did he make in total?

£5.

What does 'frequency' mean?

The number of times a particular item or value appears in a set of data.

True or False: A bar chart must always have a title and labels for the axes.

True! This helps us know exactly what the data is about.

If a pictogram key says one apple symbol = 2 apples, how many apples do 4 symbols represent?

8 apples.

Why do we use tables to show data?

Tables help us organise information into rows and columns so it is easy to read and compare.