Key Vocabulary

- bar chart
- pictogram
- frequency table
- tally chart
- discrete data
- continuous data
- time graph
- sum
- difference
- comparison
- interpret

Year 4

Discrete and Continuous Data

Data that is counted in whole numbers is discrete. In **discrete data**, values between whole numbers cannot be counted.

Data that is measured and therefore can take on infinite values is continuous. In **continuous data**, values between whole numbers can be counted.

Frequency Tables

Tally marks are used to help count things. Each vertical line represents one unit. The fifth tally mark goes down across the first four to make it easier to count.

The frequency column is completed after all the data has been collected.

Eye Colour	Tally	Frequency
brown	卌 I	6
blue	卌 III	8
green	III	3
grey	IIII	4
hazel	卌	5

Bar Charts

A bar chart has a horizontal axis and a vertical axis. Bars are used to show the data of each category. There must be a gap between each bar.

The scale of the bar chart is based on the range of data.

The scale on this bar chart counts in fives.

Favourite Flavour of Crisps

The bars are horizontal on this bar chart.

Two sets of data are shown on this stacked bar chart.

Time Graphs

Time graphs show how data changes over time.

A Bar Chart to Show the Temperature at Lunchtimes
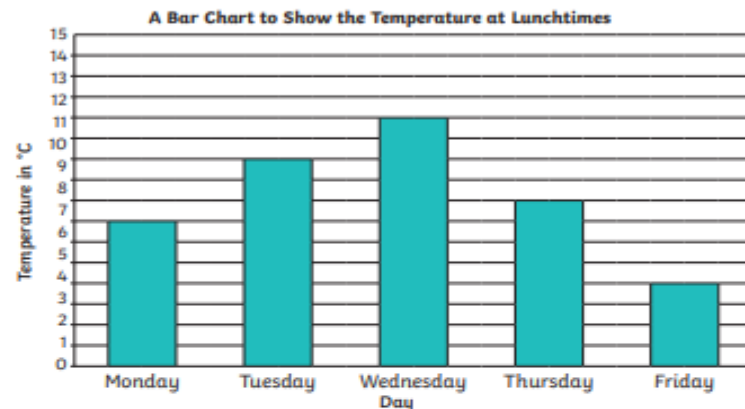
A Line Graph to Show the Average Monthly Temperature in the Borneo Rainforest
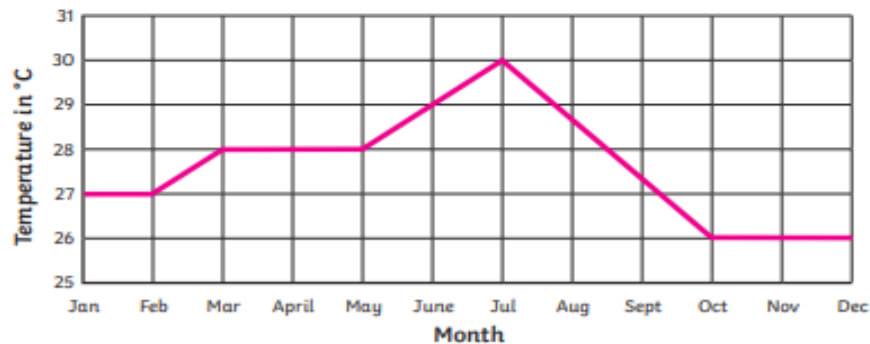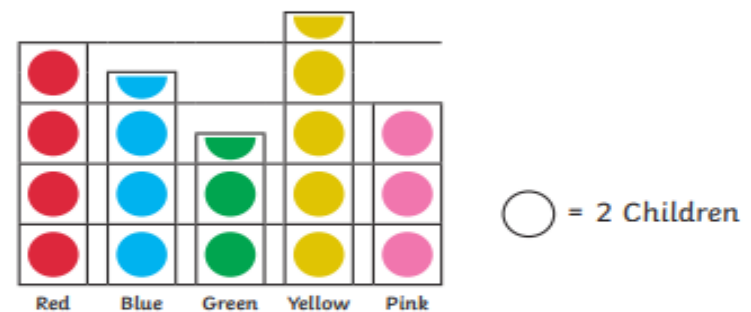

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Pictograms

Pictograms use symbols or pictures to represent data.

This pictogram uses one symbol to represent two children.

Using this key, we can see that seven children prefer the colour blue.

Class 10's Favourite Colours

◯ = 2 Children

Class 10's Pets

This pictogram uses one picture to represent four children. Using this key, we can see that six children have a pet fish.

▢ = 4 Children