

## Key Vocabulary

bar chart

pictogram

frequency table tally chart

pie chart

discrete data continuous data line graph

sum

difference

Information can be show in tables, charts or graphs.

Interpreting data simply means understanding or working out what is being shown by a table, graph or chart and being able to answer questions about that information.

comparison interpret

mean average

## Interpreting Data Pie Charts

each segment represents a data category.  
The size of each segment matches its proportion of the total amount.

## Line Graph

Line graphs are used to show changes to a measurement over time.

Data shown in a line graph is continuous.  
Sets of points are joined together to make the line.

**A line graph to show the length of shadows over time**

Pie charts represent discrete data.

A circle is divided into segments, where

**A pie chart to show children's favourite sports**

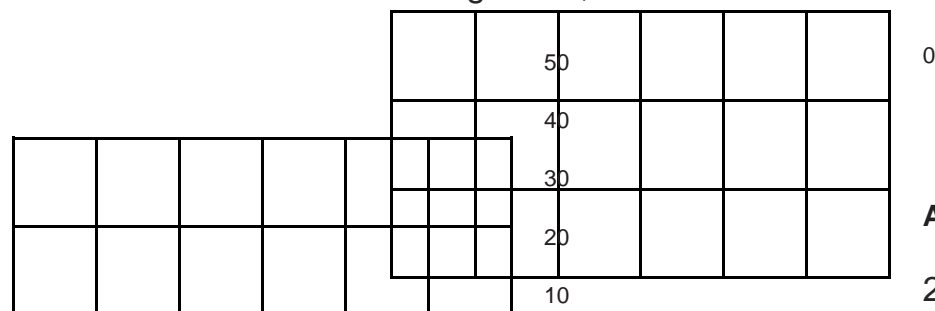
**Key**

swimming

netball

football

gymnastics



0

**April May**

24 children were asked

in total. Swimming =  $\frac{1}{2}$  so  $\frac{1}{2}$ -of 24 = 12 children Netball =  $\frac{1}{4}$ -so  $\frac{1}{4}$ -of 24 = 6 children Football =  $\frac{1}{8}$  so  $\frac{1}{8}$ -of 24 = 3 children

09:00 10:00 11:00 12:00 13:00 14:00 15pm 16pm

Gymnastics =  $\frac{1}{8}$ -so  $\frac{1}{8}$  [visit twinkl.com](https://www.twinkl.com) of 24 = 3 children

Time

## Bar Chart Pictogram

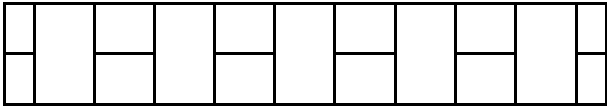
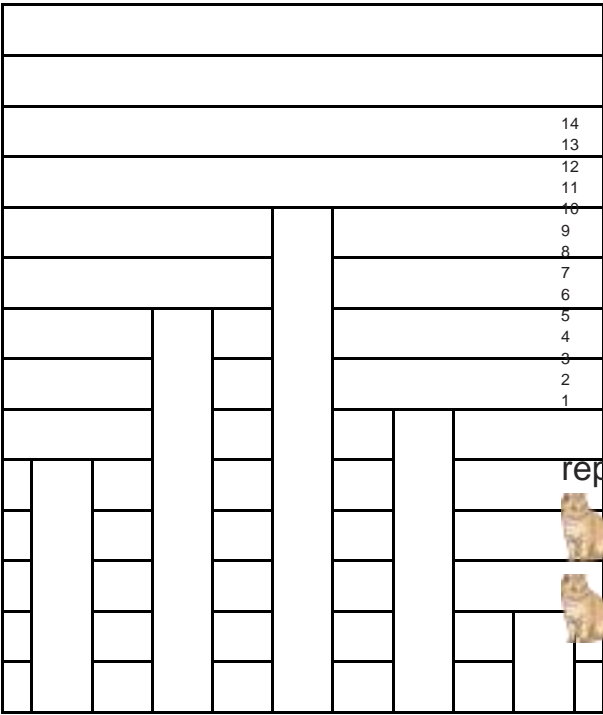
A bar chart has a horizontal axis and a vertical axis. Bars show the data value of each category. There must be a gap between each bar. The scale of the bar chart is chosen based on the data range.

A Bar Chart to Show the Temperature at Lunchtimes

This graph uses pictures or symbols to represent the data. The pictogram uses one picture or symbol to


**Class 10's Pets** 

15



represent a value.



    = 4 Children



<sup>0</sup>Dog Cat Fish Rabbit Hamster

Monday Tuesday Wednesday Thursday Friday  
Day

## Frequency Table Mean Average

Eye Colour	Tally	Frequency
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brown		6
blue		8

green		3
grey		4

hazel		5
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The frequency column is completed after all the data has been collected.  
The mean is the average of a set of data.

12	15	
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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.

To find the mean or average, add up all of the values to find the total. Divide the total by the number of values that you added together. This will give you the mean.

$$12 + 15 + 10 + 8 + 15 = 60$$

$$60 \div 5 = 12$$

The mean of this data is 12. [visit twinkl.com](https://www.twinkl.com)