

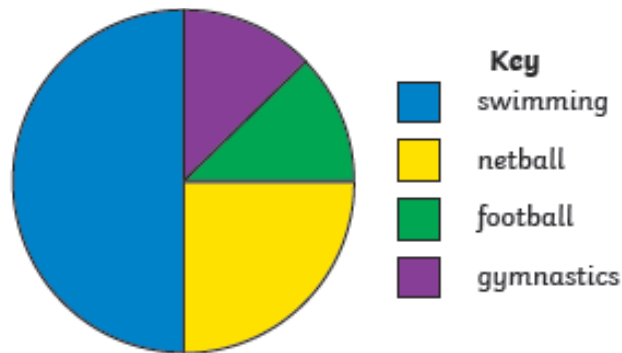
Types of Graphs and Charts

Vocabulary

Line graphs show changes to measurements over time. Data shown in line graphs is **continuous** – we can find measures between the ones that are labelled.

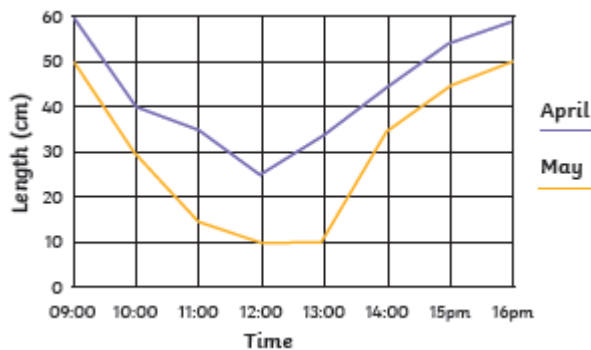
Pie charts show **discrete** data. The size of each segment represents the proportion of the total amount.

A pie chart to show pupil attendance at sports clubs



This chart shows $\frac{1}{2}$ of the total number of pupils went to swimming club, $\frac{1}{4}$ to netball club and $\frac{1}{8}$ to football and gymnastics.

A line graph to show the length of shadows over time



graphs	pictograms bar charts tally charts line graphs pie charts
discrete data	Discrete data is counted
continuous data	Continuous data is measured
mean average	The calculated 'centre' value of a set of numbers
compare	See which aspects are the same or similar

Mean Average

To find the mean or average, add up all of the values (numbers) to find the total. Then divide the total by the number of values that there are.

12	15	10	8	15
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Here there are 5 values

The mean of this data is 12

$$12 + 15 + 10 + 8 + 15 = 60 \quad 60 \div 5 = 12$$

Interpret data – working out and understanding what is being shown in tables, charts and graphs to be able to answer questions