

Key concepts and questions

How is the mean of a set of data found?

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

Divide the whole by 5 as there are 5 groups.

$60 \div 5 = 12$

The mean is 12

How can a pie chart be interpreted?

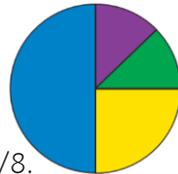
- Segments can be thought of as fractions of the whole pie chart.

- There are 4 parts, but they are not all equal.

Blue =  $\frac{1}{2}$

Yellow =  $\frac{1}{4}$

Purple and green are both  $\frac{1}{8}$ .

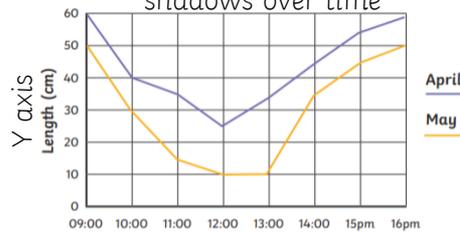


Key Vocabulary

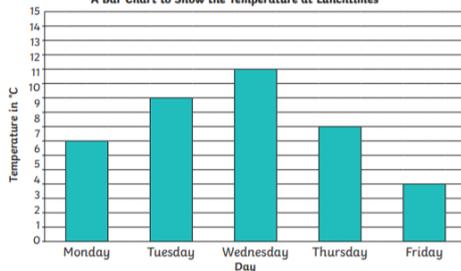
Line graph	Bar chart	Data	Percentage	Fraction
Pie chart	A circular representation of data.			
Segment	A section of data on a pie chart.			
Average	A single number that fairly represents the whole data			
Mean	Find the total of all the parts then share equally between the number of groups			

Representations

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



A Bar Chart to Show the Temperature at Lunchtimes

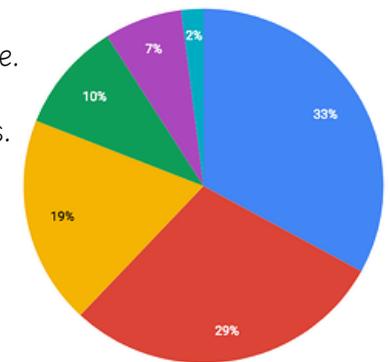


Making connections

Fractions and percentages

- The circle in a pie chart represents a whole.
- Each segment is a fraction of the whole
- These can also be expressed as percentages.

What is your favourite animal?



● Tigers ● Lions ● Zebras ● Giraffes ● Elephants ● Other

Pie charts and angles around a point

- Make links between knowledge of angles within a circle to make comparisons within a pie chart.
- E.g. in the pie chart above, the largest segment is tigers, so most children picked these as their favourite animal. Or, the zebra segment is greater than the giraffe segment, so more children prefer zebras to giraffes.