

Y6 Maths What they need to know...

In Year 6, children should be familiar with bar and line graphs, as well as pie charts. They should be able to use their knowledge of scales to read information on these graphs accurately in order to answer questions about them. These questions will focus on comparing data on the charts to solve sum or difference problems. They will also need to know how to calculate and interpret the mean (average). They may use prepared graphs, but they will need to be able to draw them themselves as well, using an appropriate scale. Children will also be expected to extract information from tables and timetables.

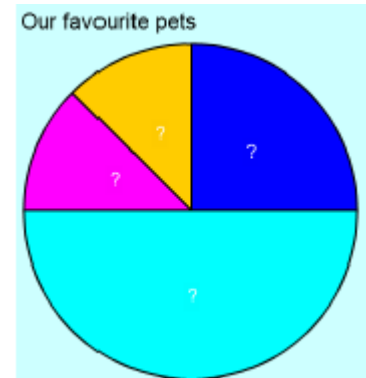
Activities & Games!

★ 96 people took part in this survey.

How many people voted for cats?

$\frac{3}{8}$ of the people who voted for dogs were male. How many females voted for dogs?

	Dogs
	Horses
	Cats
	Hamsters



★ Four children have taken two tests, one English and one Maths.

Calculate the mean:

- Maths score
- English score
- score overall
- score for each child over both tests

NAME	MATHS	ENGLISH
Ali	67	59
Sid	53	61
Pam	66	57
John	72	75

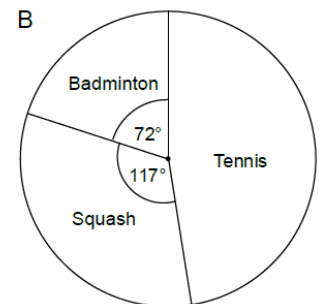
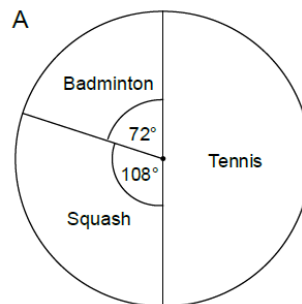
★★ Six children have taken a mental maths test. The mean score was 15 out of 20. Can you find the missing score in the list of scores below?

18 16 17 13 12 ??

★★★ Can you make up a set of five numbers which have a mean of 3.6? Can you find more than one combination of five numbers?

A gym has two sets of weights; 3kg and 8kg. Two 3kg weights and three 8kg weights have a mean weight of 6kg. Can you find any other combinations of 3kg and 8kg weights that have a mean weight of 6kg?

★★★ A group of children had to choose to play one of three sports – tennis, squash or badminton. Pie chart A shows their choices. One of the children changes sport. Pie chart B shows their choices after this change. Use the pie charts to work out how many children chose to play badminton.



Going deeper...

Pie Chart

The pie chart represents the proportions of the four ingredients in a smoothie drink.

The sector representing the amount of strawberries takes up 22% of the pie chart.

The sector representing the amount of apple is twice as big as the sector representing the amount of strawberries.

The sectors representing the amount of yoghurt and the amount of banana are identical.

Estimate the **angle** of the sector representing the amount of banana.

Explain your reasoning.



My Maths

Use our school login (Username: **coleridge1**, Password: **success74**), and then your own login details to access activities related to our current topic on the MyMaths website. You can also have a look to see if there are some other fun games you would like to play.

Wonderful websites

[Take Your Dog for a Walk](#)

[Presenting the Project](#)

[Bar Charts](#)

Whilst it can be very tempting to encourage your child to have a go at the more challenging activities, it is far better to work with them at a level they feel confident with. Significant and regular practise of even the most basic skills outlined in this document will lead to a much deeper understanding and greater proficiency, and ultimately a much more pleasant 'homework' experience for you and your child!