

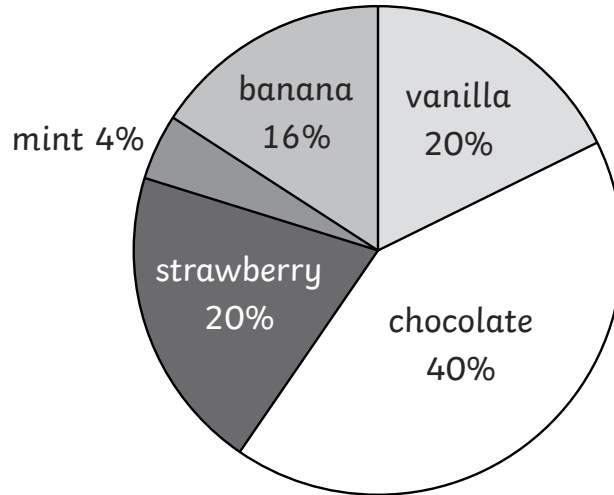


Percentages and Pie Charts

I can solve problems involving the calculation of percentages in pie charts.



Favourite Ice Cream Flavours



chocolate vanilla banana mint strawberry

1. 50 people were asked about their favourite ice cream flavour. Use this information to answer these questions about the pie chart:

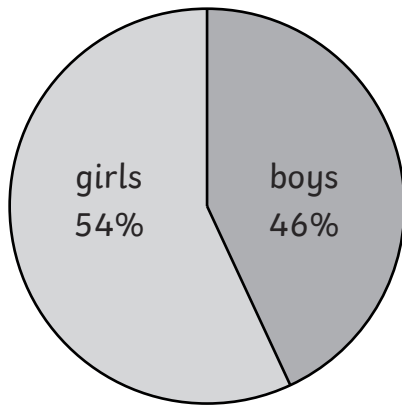
a. How many said that chocolate was their favourite?

b. How many people said that mint was their favourite?

c. 10 people like vanilla best of all. True or False? Use a calculation to prove your answer.

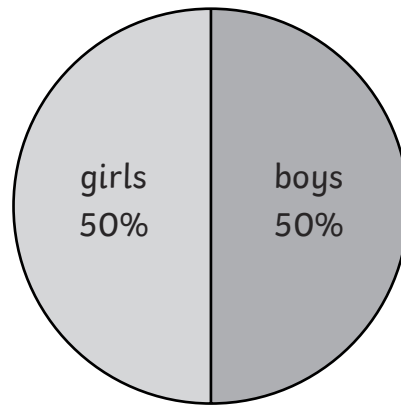


Boys and Girls in Year 5



girls boys

Boys and Girls in Year 6



girls boys

2. These pie charts show the number of boys and girls in a school in Year 5 and Year 6. There are 50 children in Year 5 and 60 children in Year 6.

a. How many children are boys in Year 6?

b. How many children are girls in Year 5?

c. There are more girls in Year 5 than Year 6. True or False? Use a calculation to prove your answer.

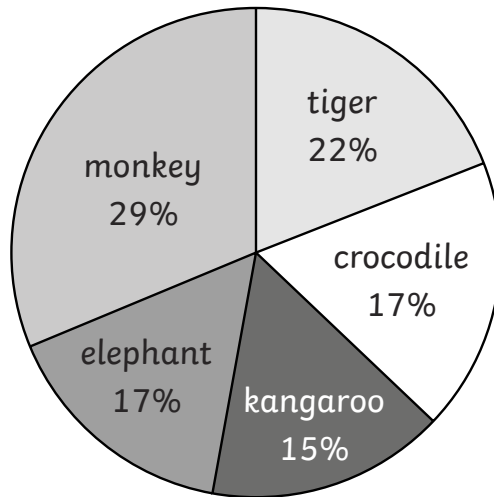


Percentages and Pie Charts

I can solve problems involving the calculation of percentages in pie charts.



Favourite Zoo Animals



crocodile tiger monkey elephant kangaroo

1. 200 people were asked about their favourite zoo animal. Use this information to answer these questions about the pie chart:

a. How many people like elephants?

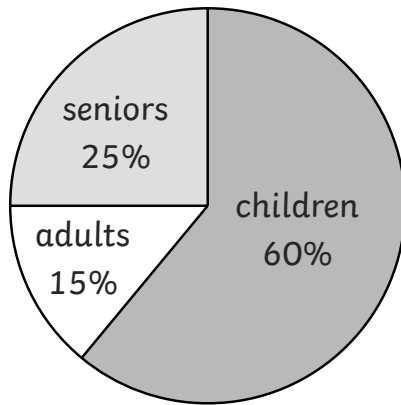
b. How many more people liked tigers than kangaroos?

c. 14 more people liked monkeys than tigers. True or False? Show a calculation to show how you know.

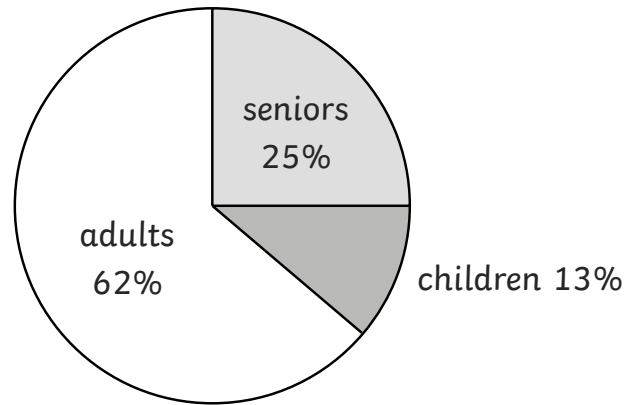


Percentages and Pie Charts

The Make-up of an Audience at an Afternoon Performance at a Theatre



The Make-up of an Audience at an Evening Performance at a Theatre



adults seniors children adults seniors children

2. 200 people went to the theatre one afternoon. The same evening, 500 people went to the same theatre. Answer the following questions about the pie chart:

a. How many adults went to the theatre in the afternoon?

b. How many children went to the theatre in the evening?

c. The same number of seniors went to the theatre in the afternoon as the evening. True or False? Use a calculation to show how you know.

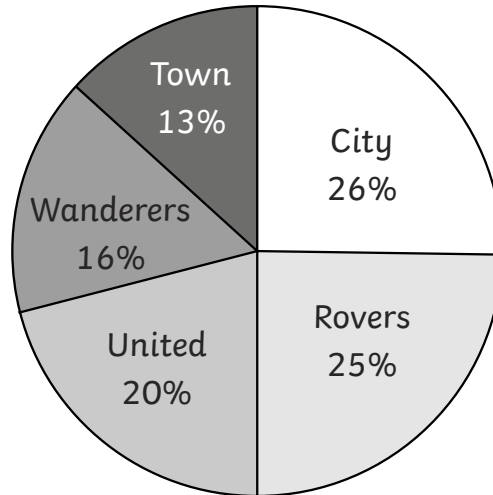


Percentages and Pie Charts

I can solve problems involving the calculation of percentages in pie charts.



Average Attendance at Football Grounds



City Rovers United Wanderers Town

1. This pie chart shows the average attendance over a season. Rovers' average attendance was 50 000. Answer these questions about the pie chart:

a. How many people on average attended United?

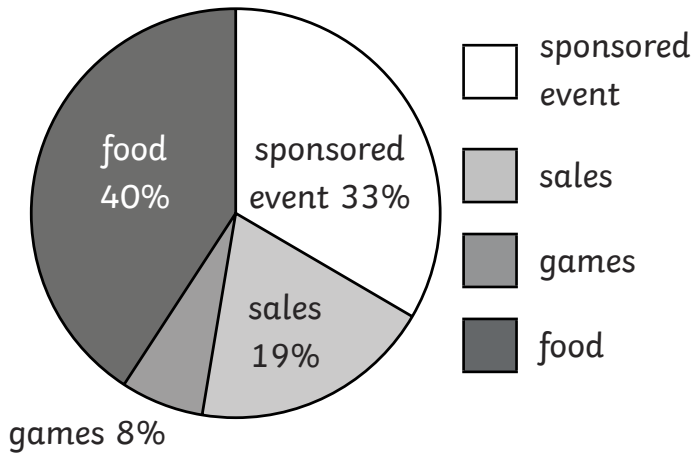
b. How many teams had average attendance over 45 000?

c. City had an average attendance of more than 50 000. True or False? Use a calculation to show how you know.

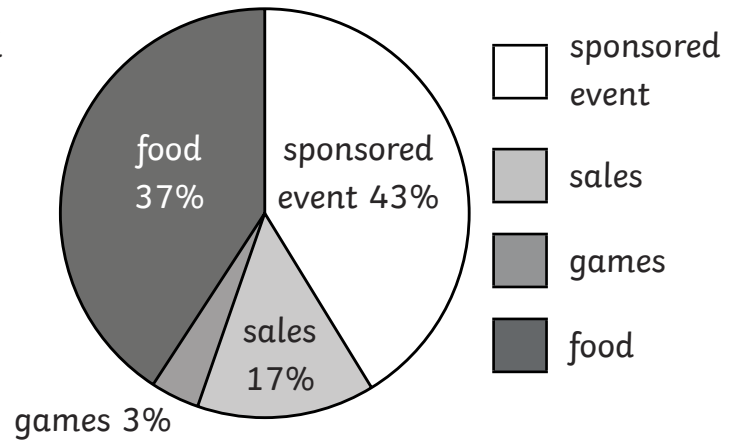


Percentages and Pie Charts

Fundraising 2014



Fundraising 2015



2. A charity raises money. In 2014, £1000 was raised. They raised £300 more in 2015. Use this information and the pie charts to answer the following questions:

a. In 2014, how much money was raised on food?

b. How much more money was raised in 2015 on sponsored events than in 2014?

c. More money was raised on sales in 2014 than 2015. True or False?
Use a calculation to show how you know.



Percentages and Pie Charts **Answers**

Question	Answer
1. 50 people were asked about their favourite ice cream flavour. Use this information to answer these questions about the pie chart:	
a	20
b	2
c	<i>True. Children include an example of how they calculated the answer.</i>
2. These pie charts show the number of boys and girls in a school in Year 5 and Year 6. There are 50 children in Year 5 and 60 children in Year 6.	
a	30 boys
b	27 girls
c	<i>False. Children include an example of how they calculated the answer.</i>



Percentages and Pie Charts **Answers**

Question	Answer
1. 200 people were asked about their favourite zoo animal. Use this information to answer these questions about the pie chart:	
a	<i>34 people</i>
b	<i>14 people</i>
c	<i>True. Children include an example of how they calculated the answer.</i>
2. 200 people went to the theatre one afternoon. The same evening, 500 people went to the same theatre. Answer the following questions about the pie chart:	
a	<i>30 adults</i>
b	<i>65 children</i>
c	<i>False. Children include an example of how they calculated the answer.</i>



Percentages and Pie Charts **Answers**

Question	Answer
1. This pie chart shows the average attendance over a season. Rovers' average attendance was 50 000. Answer these questions about the pie chart:	
a	<i>40 000 people</i>
b	<i>Two Teams</i>
c	<i>True. Children include an example of how they calculated the answer.</i>
2. A charity raises money. In 2014, £1000 was raised. They raised £300 more in 2015. Use this information and the pie charts to answer the following questions:	
a	<i>£400</i>
b	<i>£229</i>
c	<i>False. Children include an example of how they calculated the answer.</i>



PlanIt Year 6

Ratio and Proportion

To continue the learning in this area of maths with exclusive teacher-created planning packs, click [here](#)

This thumbnail shows two planning pack covers. The left one is titled 'Simple Problems' and features a cartoon illustration of children. The right one is titled 'More Complex Problems' and includes a table with mathematical data. Below the covers are two smaller thumbnails showing lesson plans for 'Ratio and Proportion: Solving Proportion Problems'.

This thumbnail features a central title 'Ratio and Proportion Challenge Cards' with a green and pink polka-dot background. It includes a pie chart, a list of two challenge questions, and a 'Scale Factor' diagram. To the right, there is a text box about a family's house and another about a person's income.

This thumbnail displays 'Starter Ideas' and 'Ratio and Proportion Starter Ideas' covers. The 'Starter Ideas' cover has a pie chart. The 'Ratio and Proportion Starter Ideas' cover includes a 'Quick Percentages Grid' with columns for 100ml, 0.5l, and 250ml, and rows for 2l, 100 seconds, and 2 minutes.

This thumbnail shows a 'Ratio and Proportion' planning pack cover with a polka-dot background. It features three sub-sections: 'Percentage', 'Proportion', and 'Pie Charts'. To the right, there are three text boxes containing the words 'fraction', 'one for every', and 'percent'.

This thumbnail shows 'Pie Chart Truths' and 'Percentages and Pie Charts' covers. The 'Pie Chart Truths' cover has a colorful pie chart. The 'Percentages and Pie Charts' cover includes a pineapple illustration and a 'Fruit Children Own' chart.

This thumbnail features 'The Big Question' and 'Ratio and Proportion: Ratio and Patterns' covers. 'The Big Question' cover shows a girl thinking. 'Ratio and Proportion: Ratio and Patterns' cover includes a grid and a 'Building Up Patterns' section.

To view more of our award-winning schemes of work, visit [here](#)
If you need us, just get in touch - contact [here](#)

