# Favourite Ice Cream Flavours

mint 4%

banana

16%

vanilla

20%

strawberry

20%

chocolate

40%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. |



# Percentages and Pie Charts

**Boys and Girls in Year 5 Boys and Girls in Year 6**

girls

54%

boys

46%

girls

50%

boys

50%

|  |  |
| --- | --- |
| girls | boys |

|  |  |
| --- | --- |
| girls | boys |

1. 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. |



# Favourite Zoo Animals

monkey

29%

tiger

22%

crocodile

17%

elephant

17% kangaroo

15%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. |



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

**Percentages and Pie Charts**

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

children 13%

seniors

25%

adults

62%

seniors

25%

adults

15%

children

60%

|  |  |  |
| --- | --- | --- |
| adults | seniors | children |

|  |  |  |
| --- | --- | --- |
| adults | seniors | children |

1. 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 orFalse? 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

Town

13%

Wanderers

16%

City

26%

United Rovers

20% 25%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 toshow how you know. |



# Percentages and Pie Charts

**Fundraising 2014**

sponsored event

food

40%

sponsored

event 33%

sales

19%

# Fundraising 2015

sponsored event

games 8%

food

37%

|  |
| --- |
| sales |
| games |
| food |

games 3%

sponsored

event 43%

|  |
| --- |
| sales |
| games |
| food |

sales

17%

1. 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. |



|  |  |
| --- | --- |
| **Question** | **Answer** |
| **1.** 50 people were asked about their favourite ice cream flavour. Use this information to answer thesequestions about the pie chart: |
| **a** | ***20*** |
| **b** | ***2*** |
| **c** | ***True. Children include an example of how they calculated the answer.*** |
| **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** | ***False. Children include an example of how they calculated the answer.*** |



|  |  |
| --- | --- |
| **Question** | **Answer** |
| **1.** 200 people were asked about their favourite zoo animal. Use this information to answer thesequestions about the pie chart: |
| **a** | ***34 people*** |
| **b** | ***14 people*** |
| **c** | ***True. Children include an example of how they calculated the answer.*** |
| **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** | ***30 adults*** |
| **b** | ***65 children*** |
| **c** | ***False. Children include an example of how they calculated the answer.*** |



|  |  |
| --- | --- |
| **Question** | **Answer** |
| **1.** This pie chart shows the average attendance over a season. Rovers’ average attendance was50 000. Answer these questions about the pie chart: |
| **a** | ***40 000 people*** |
| **b** | ***Two Teams*** |
| **c** | ***True. Children include an example of how they calculated the answer.*** |
| **2**. A charity raises money. In 2014, £1000 was raised. They raised £300 more in 2015. Use thisinformation and the pie charts to answer the following questions: |
| **a** | ***£400*** |
| **b** | ***£229*** |
| **c** | ***False. Children include an example of how they calculated the answer.*** |

