

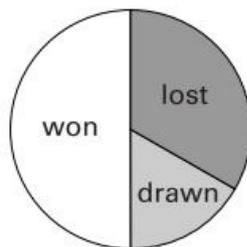
# Pie Charts- Questions

Key Stage 2: 2003 Paper A

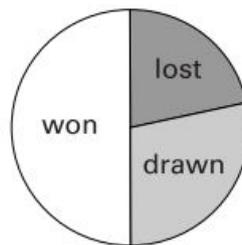
1.

21

The pie charts show the results of a school's netball and football matches.



Netball



Football

The netball team played **30** games.

The football team played **24** games.

Estimate the percentage of games that the netball team lost.



%



21a

1 mark

David says,

*'The two teams won the same number of games.'*

Is he correct?  
Circle Yes or No.



Yes / No

Explain how you know.



.....

.....

.....



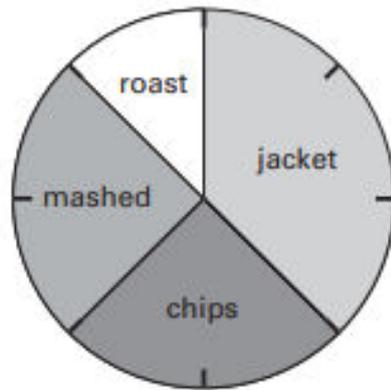
21b

1 mark

1.

**18**

This pie chart shows how the children in Class 6 best like their potatoes cooked.



32 children took part in the survey.

Look at the four statements below.

For each statement put a tick (✓) if it is **correct**.  
Put a cross (✗) if it is **not correct**.



10 children like chips best.

25% of the children like mashed potatoes best.

$\frac{1}{5}$  of the children like roast potatoes best.

12 children like jacket potatoes best.

	18
	18
2 marks	

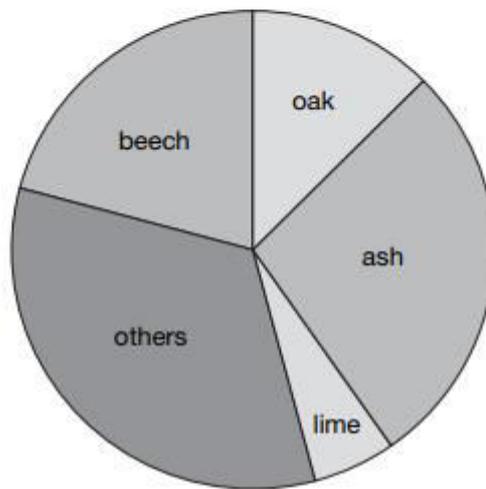
1.

20

Class 6 did a survey of the number of trees in a country park.



This pie chart shows their results.



Estimate the **fraction** of trees in the survey that are **oak** trees.

20a

1 mark

The children counted 60 **ash** trees.

Use the pie chart to estimate the **number** of **beech** trees they counted.

20b

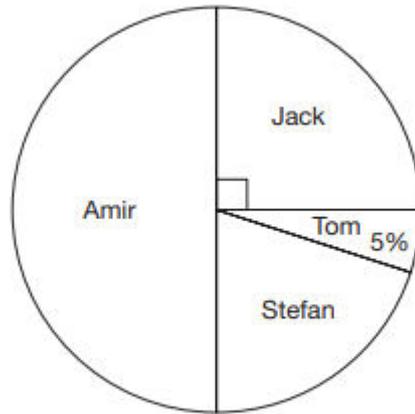
1 mark

1.

**21**

40 children predicted who would win the boys' race at sports day.

This pie chart shows their predictions.



What percentage of the children predicted that Stefan would win?

  %

21a

1 mark

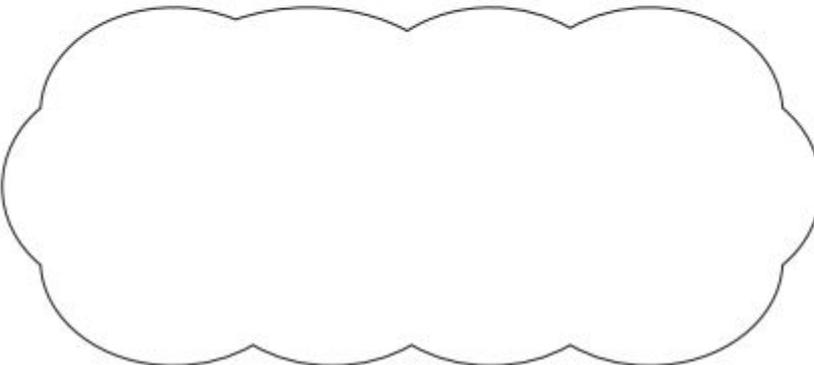
10 children predicted the winner of the race **correctly**.

Who won the race?

 \_\_\_\_\_

Explain how you know.





21b

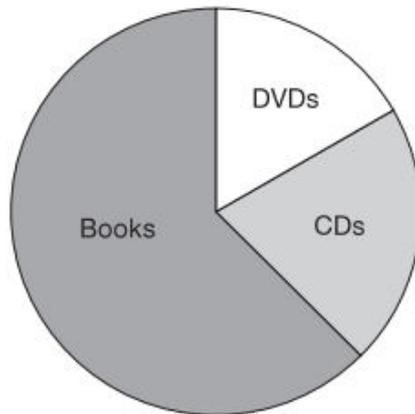
1 mark

1.

22

A shop sells books, CDs and DVDs.

This pie chart shows the sales of each in one week.



Estimate the **fraction** of the total sales that were DVDs.



22a  
1 mark

In this week, 200 **CDs** were sold.

Estimate how many books were sold.



22b  
1 mark

1.

9

Here are three questions and answers about bananas.

On average, how much does each person pay for bananas in supermarkets?

Answer: **56p per kg**

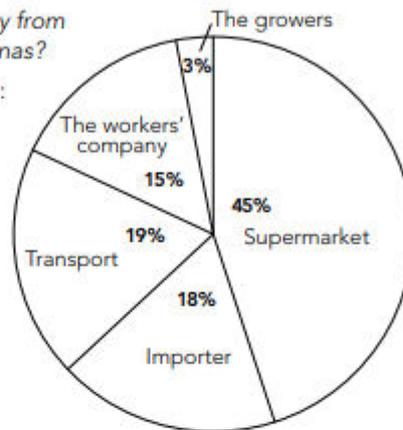


On average, what quantity of bananas does each person eat in one year?

Answer: **10kg**

Who gets money from the sale of bananas?

Answer:



How much of the money each person pays for bananas in one year goes to the **growers**?

Show your method

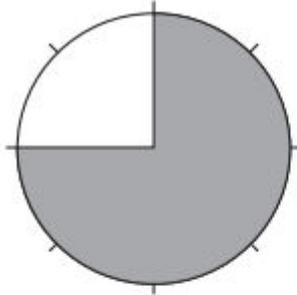
p

(2 marks)

1.

**11** Look at the information in these two pie charts.

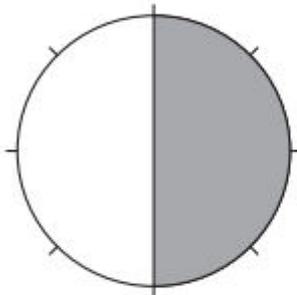
**Pupils in class 6K**



**Key:**



**Girls in class 6K**



**Key:**

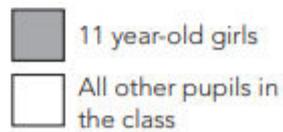


Use the information in the two pie charts to complete the pie chart below.

**Pupils in class 6K**



**Key:**

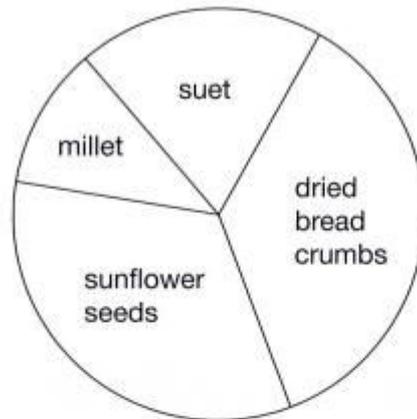
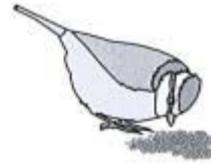


(1 mark)

1.

22

This pie chart shows the ingredients to make a food mixture for wild birds.



Estimate the **percentage** of mixture that is suet.

  %

22a

1 mark

Mina uses 100 grams of millet in the mixture.

Estimate how many grams of sunflower seeds she should use.

  g

22b

1 mark

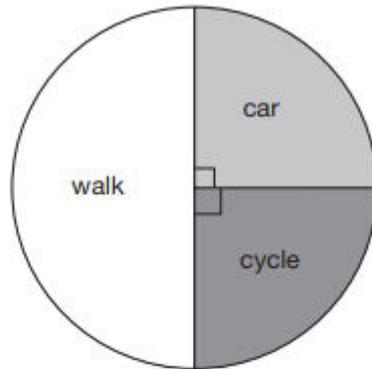
1.

25

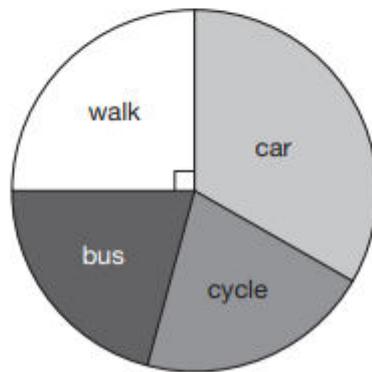
Megan asked children from two different schools,

***'How do you travel to school?'***

Here are her results.



Foxwood school  
80 children



Midtown school  
240 children

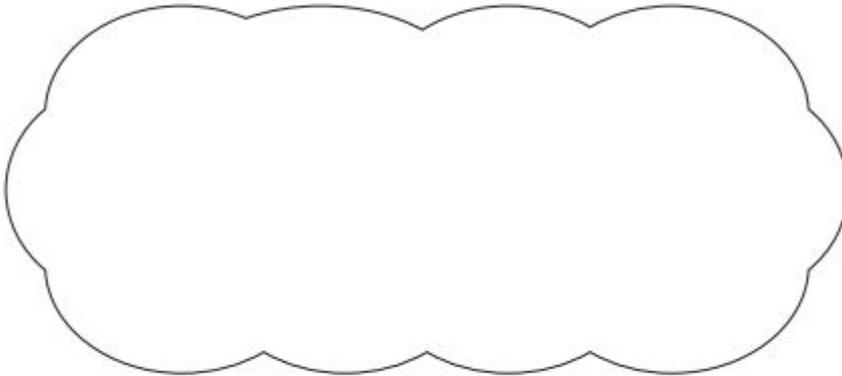
Megan says,

***'The number of children walking to Foxwood school is more than the number walking to Midtown school.'***

Is she correct?  
Circle **Yes** or **No**.

 Yes / No

Explain how you know.





25a  
1 mark

At Midtown school, one third of children travel by car.

The number of children who cycle is the same as the number who go on the bus.

How many children **cycle** to Midtown school?



Show your method



25bi  
25bi  
2 marks

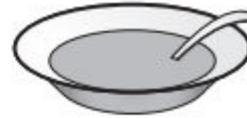
1.

12

Alfie did a survey to find which soup was most popular.

The choices were:

- tomato
- chicken
- mushroom



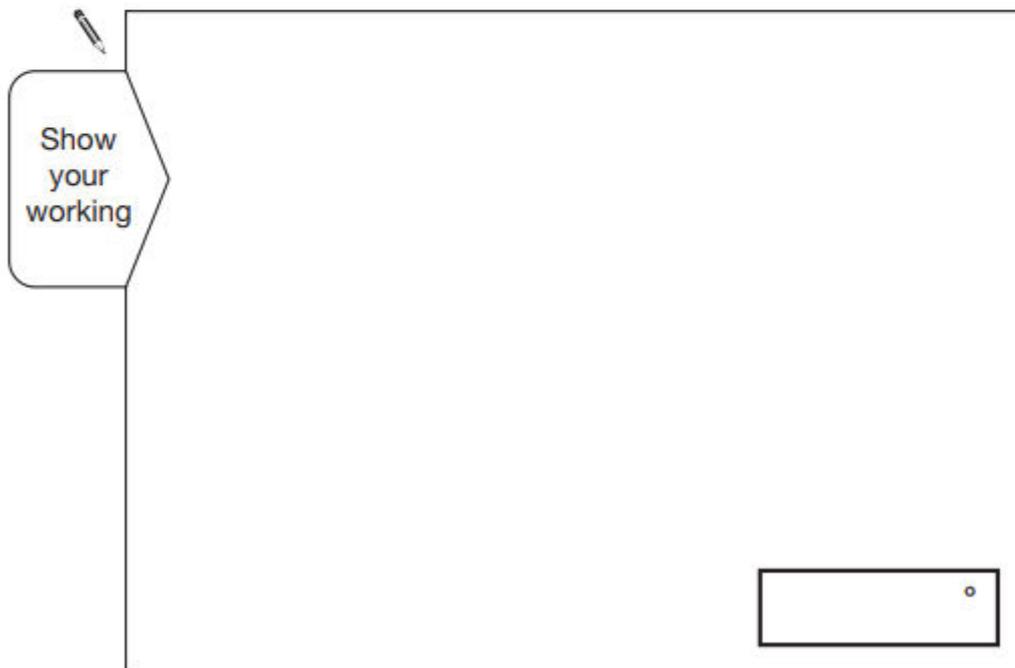
A quarter of the children chose chicken soup.

Four times as many children chose tomato soup as chose mushroom soup.

Alfie makes a pie chart to show this information.

What **angle** should he use for the children who chose tomato soup?

Show your working

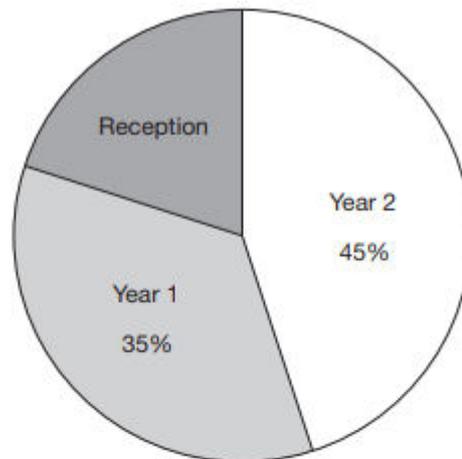
A large, empty rectangular box intended for the student to show their working. On the left side, there is a callout box with a pencil icon and the text "Show your working". In the bottom right corner of the main box, there is a smaller, empty rectangular box with a small circle inside, likely for the final answer.

3 marks

1.

10

The pie chart shows the Year groups of children at Woodland Infant School.



There are **56** children in **Year 1**

How many children are there in Reception?

Show your method

children

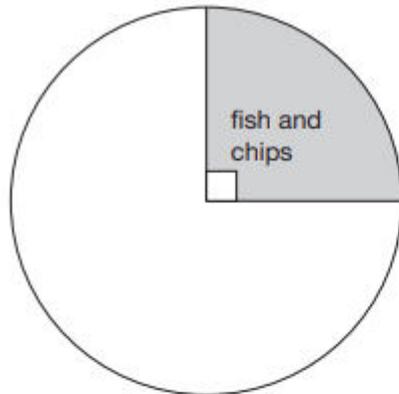
2 marks

1.

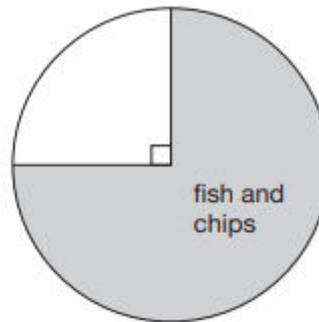
4

200 girls and 100 boys were asked about their favourite meal.

These pie charts show the results.



200 girls



100 boys

Look at the pie charts.

For each statement put a tick (✓) if it is true or a cross (✗) if it is false.



Three-quarters of the boys chose fish and chips.

Three times as many boys as girls chose fish and chips.

Altogether, half of the children chose fish and chips.

25 more boys than girls chose fish and chips.

2 marks

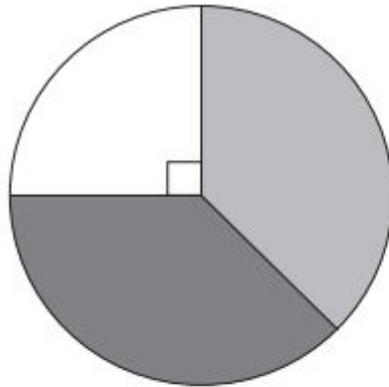
Key Stage 2: Paper 2 and 3 Reasoning - Sample

1.

11

A shop sells drinks.

The pie chart compares the money a shop took last year for water, juice and soft drinks.



Key:



Water



Juice



Soft drinks

The shop took £8264 for soft drinks.

Sales of water and juice were **equal**.

How much money did the shop take for **juice** last year?

Show your method

£

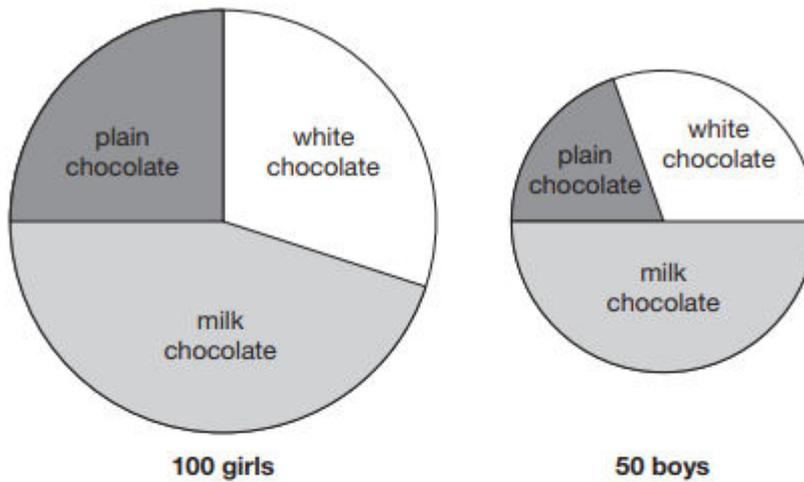
2 marks

1.

**18**

100 girls and 50 boys were asked which kind of chocolate they like best.

These two pie charts show the results.



Dev says,

*"The pie charts show that more girls than boys liked milk chocolate best."*

Dev is correct.

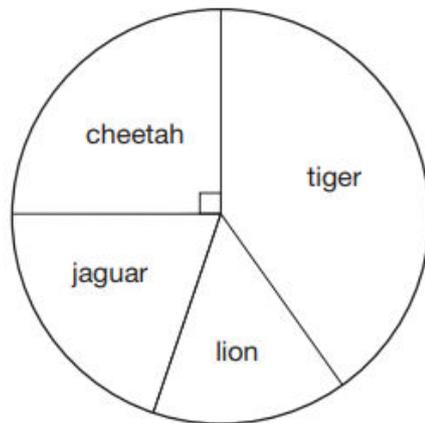
Explain how you know.

1.

6

This chart shows the number of different types of big cat in a zoo.

There are **20** big cats in the zoo altogether.



Here are some statements about the chart.

Tick the statements that are **true**.

There are more cheetahs than jaguars.

The total number of lions and tigers is 10

One-quarter of the big cats are cheetahs.

There are more than 5 jaguars.

2 marks