

## Pie Charts Past Paper Questions



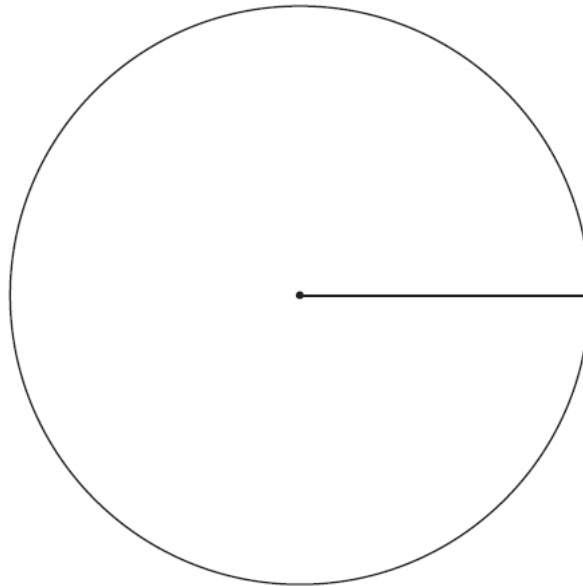
**Q1.**

Mike asked 60 students to name their favourite fruit.

Here are his results.

Favourite Fruit	Frequency
Apple	18
Banana	23
Orange	9
Pear	10

Draw an accurate pie chart for his results.



**(Total for Question is 4 marks)**



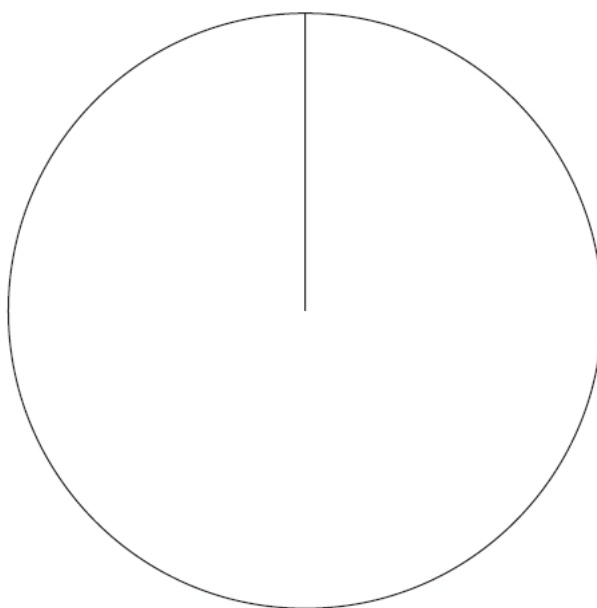
**Q2.**

Sharon asked each of her friends to name their favourite Olympic sport.

The table below shows information about their answers.

Sport	Frequency
athletics	13
cycling	17
swimming	8
gymnastics	7

Draw an accurate pie chart for this information.



**(Total for question = 3 marks)**



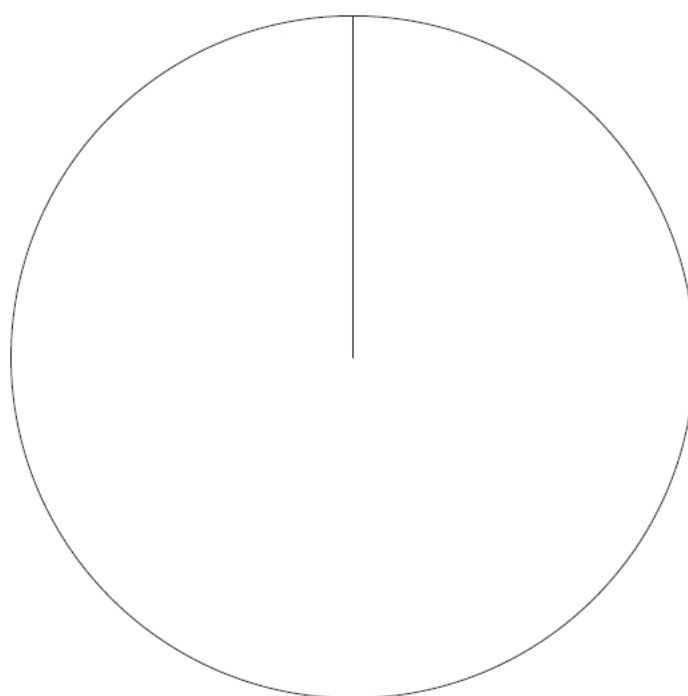
**Q3.**

A group of football fans were asked what their half time snack was.

The table below gives information about their answers.

Snack	Number of fans
burger	11
pie	17
hot dog	8

Draw an accurate pie chart for this information.



**(Total for question = 3 marks)**



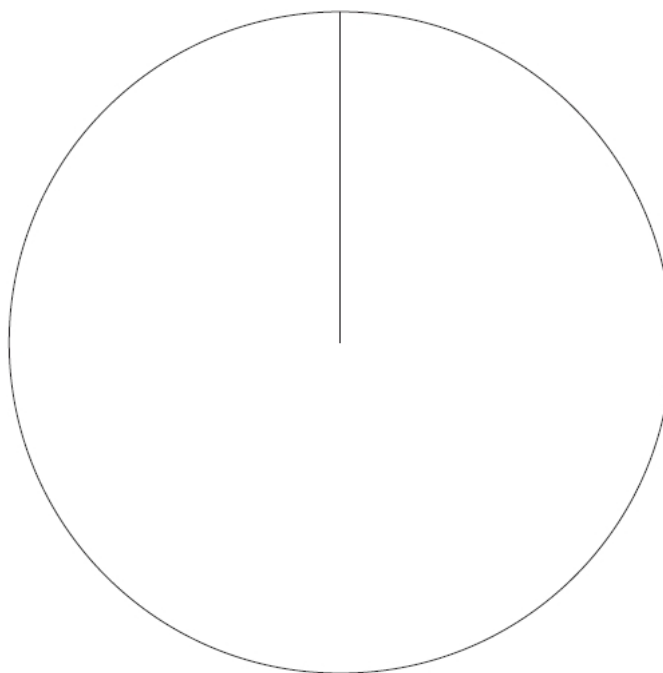
**Q4.**

Year 9 students from Halle School were asked to choose one language to study.

The table shows information about their choices.

Language	Number of students	
French	56	
Spanish	40	
German	24	

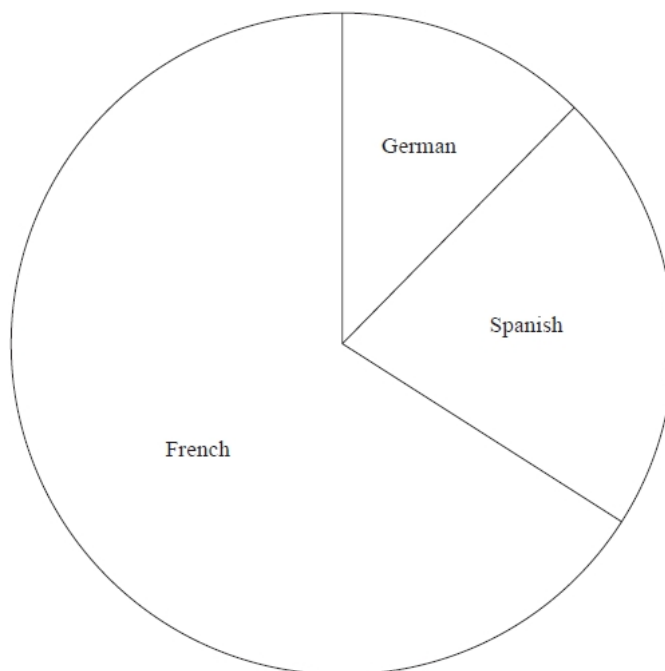
(a) Draw an accurate pie chart to show this information.



(3)

Year 9 students from Lowry School were also asked to choose one language to study.

This accurate pie chart shows information about their choices.



Shameena says,

"The pie chart shows that French was chosen by more Year 9 students at Lowry School than at Halle School."

(b) Is Shameena right?

You must explain your answer.

.....  
.....  
.....

(1)

**(Total for question = 4 marks)**



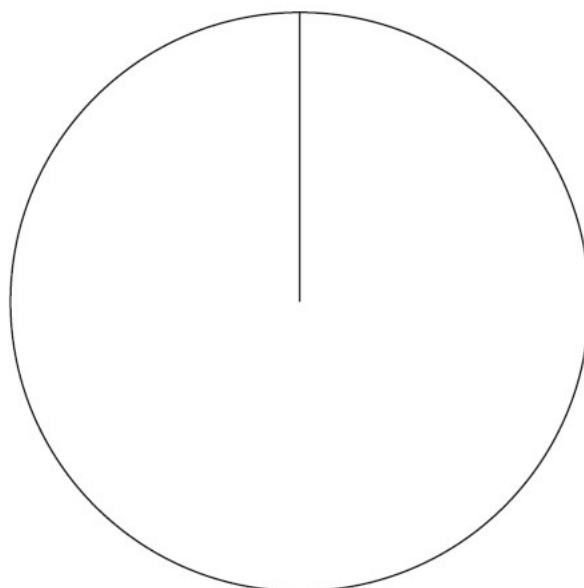
**Q5.**

A group of Year 10 students was asked to choose a new subject to study.

The table shows information about the choices.

Subject	Number of students	
<b>construction</b>	40	
<b>hairdressing</b>	56	
<b>tourism</b>	24	

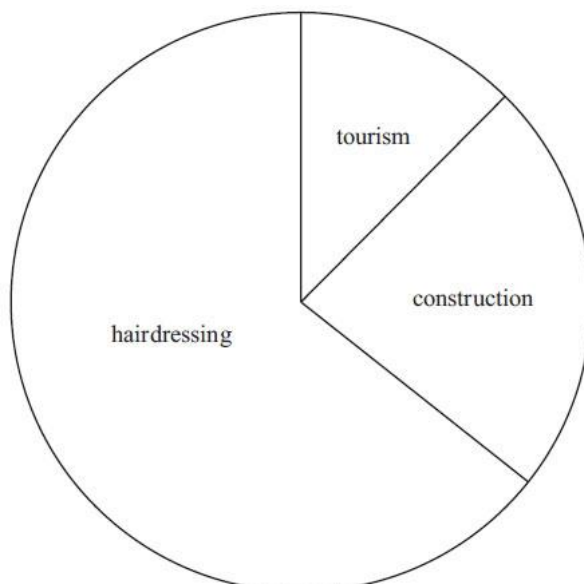
(a) Draw an accurate pie chart to show this information.



(3)

A group of Year 11 students was also asked to choose a new subject to study.

This pie chart shows information about their choices.



Danny says

"The pie charts show that hairdressing was chosen by more Year 11 students than by Year 10 students."

(b) Is Danny correct? . . . . .

You must explain your answer.

.....  
.....  
.....  
.....

(1)

(Total for Question is 4 marks)

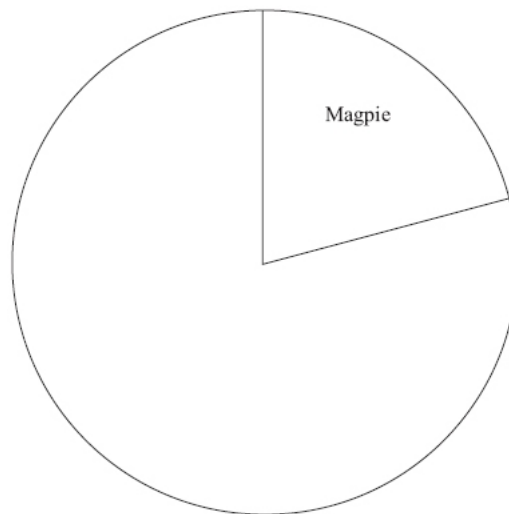


**Q6.**

The table gives some information about the birds Paula sees in her garden one day.

<b>Bird</b>	<b>Frequency</b>
Magpie	15
Thrush	10
Starling	20
Sparrow	27

Complete the accurate pie chart.



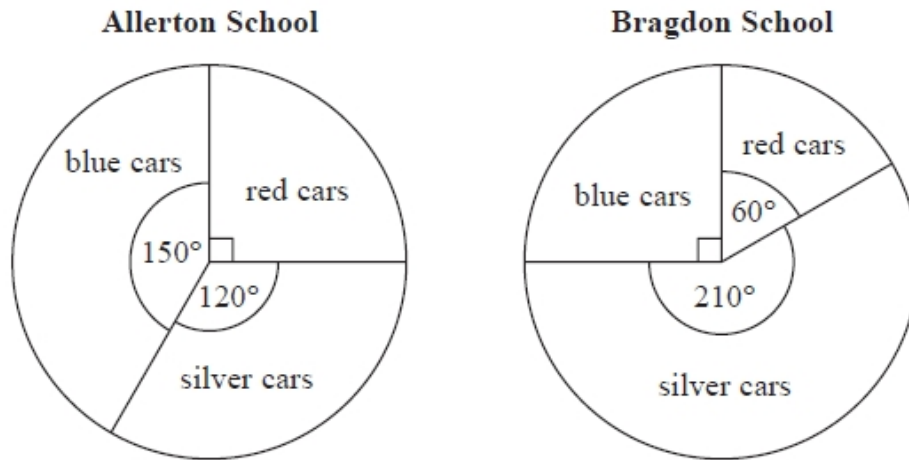
**(Total for Question is 3 marks)**





**Q7.**

There are only silver cars, blue cars and red cars in the car parks at Allerton School and at Bragdon School. The pie charts show information about the numbers of these cars.



- (a) What fraction of the cars in the car park at Allerton School are blue?  
Give your fraction in its simplest form.

.....  
(2)

There are 12 red cars in the car park at Bragdon School.

- (b) How many silver cars are there in this car park?

.....  
(2)

- (c) In which car park are there more silver cars?

Tick (✓) one box to show your answer.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allerton School	Bragdon School	Not enough information

Explain your answer.

.....  
.....  
.....

(1)

(Total for Question is 5 marks)



**Q8.**

The pie chart shows information about how the students in Year 11 get to school.

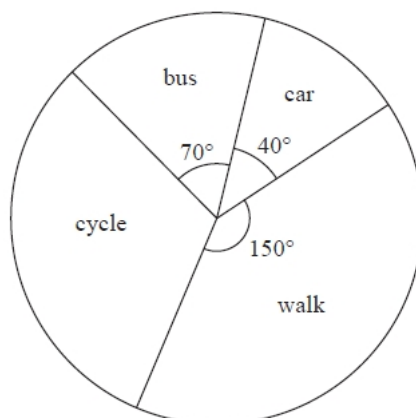


Diagram **NOT** accurately drawn

Mr Morley says, "Less than 10% of students in Year 11 get to school by car".

(a) Is Mr Morley correct?

You must explain your answer.

.....  
.....  
.....

(2)

50 students in Year 11 cycle to school.

(b) How many students in Year 11 walk to school?

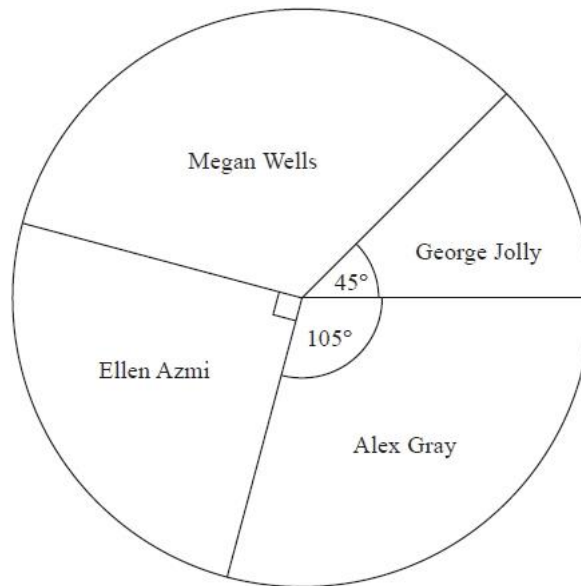
.....  
(3)

(Total for Question is 5 marks)



**Q9.**

The pie chart shows information about the number of votes each of four candidates got in an election.



(a) What fraction of the votes did Megan Wells get?

.....  
(2)

Ellen Azmi got 4500 votes.

(b) Work out the total number of votes the four candidates got.

.....  
(2)

**(Total for question = 4 marks)**



**Q10.**

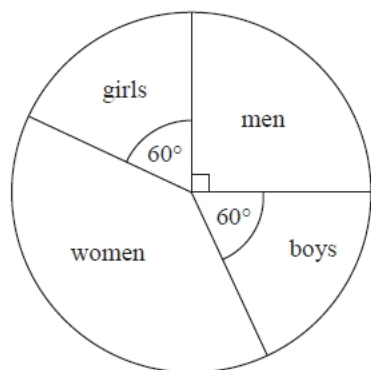


Diagram **NOT** accurately drawn

The pie chart above gives information about the people who went to a shop last week.

- (a) What fraction of the people were girls?  
Give your answer in its simplest form.

.....  
(2)

30 boys went to the shop.

- (b) Work out the number of women who went to the shop.

.....  
(3)

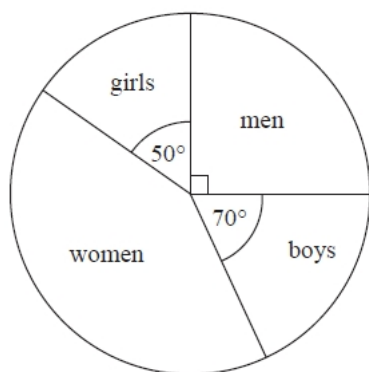


Diagram **NOT** accurately drawn

The pie chart below gives information about the people who went to the same shop this week.

Laurent says,

"The pie chart shows that more boys went to the shop this week than last week."

- (c) Is Laurent correct?

Explain your answer.

(1)

**(Total for question = 6 marks)**