

## S044 Pie Charts

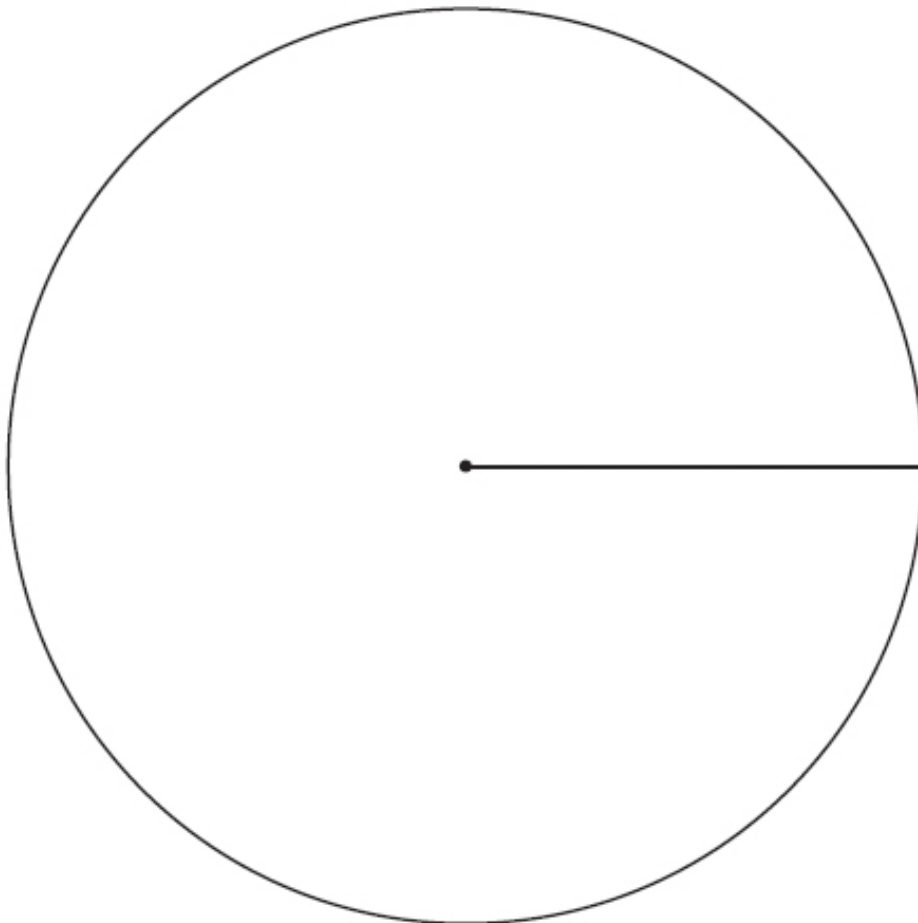
Q1.

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.



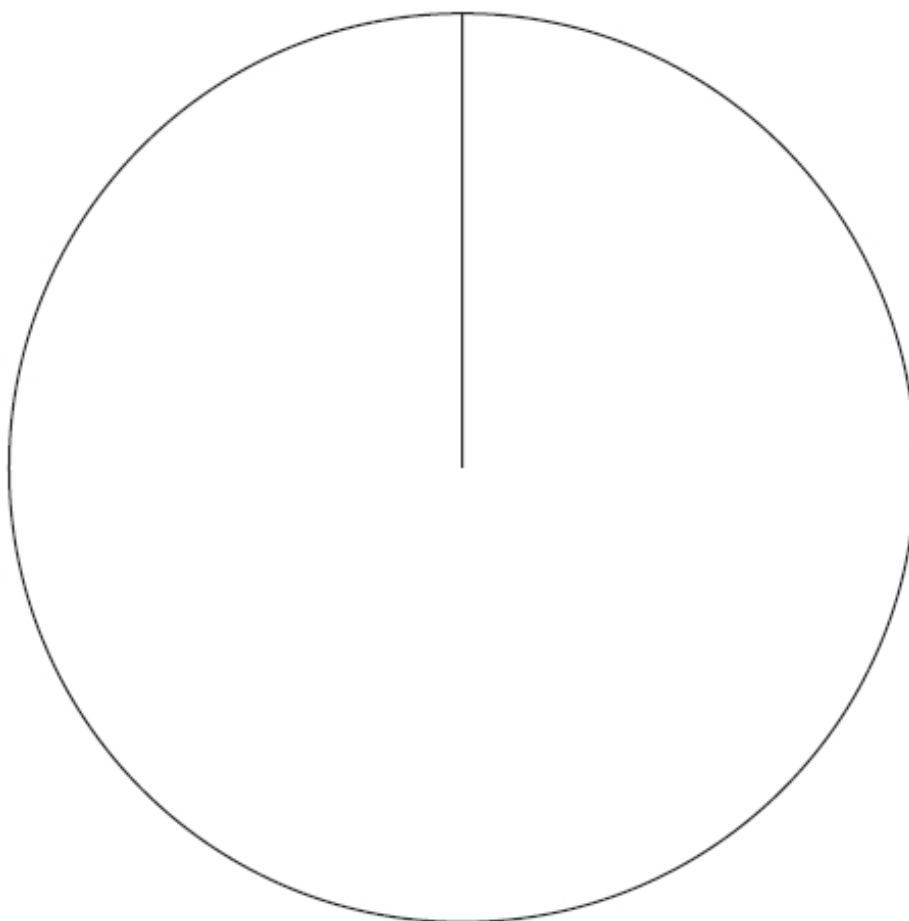
**(Total for Question is 4 marks)**

**Q2.**

Sharon asked each of her friends to name their favourite Olympic sport.  
The table below shows information about their answers.

<b>Sport</b>	<b>Frequency</b>
athletics	13
cycling	17
swimming	8
gymnastics	7

Draw an accurate pie chart for this information.

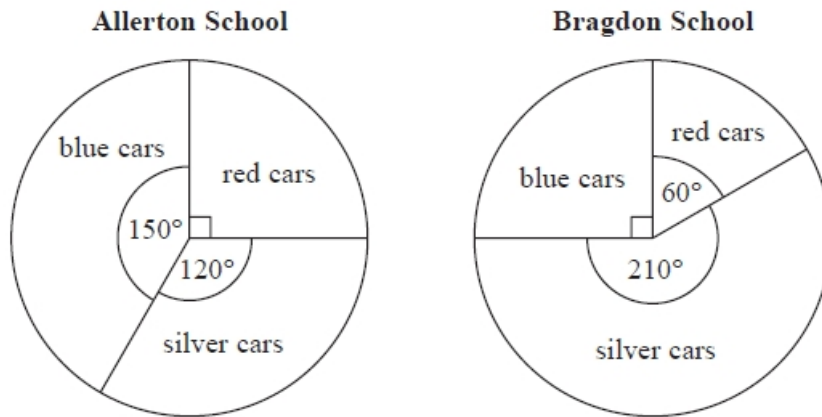


**(Total for question = 3 marks)**

**Q3.**

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)**

**Q4.**

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

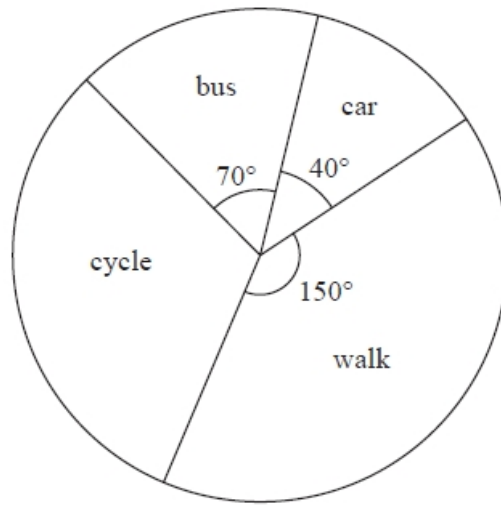


Diagram **NOT** accurately drawn

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.

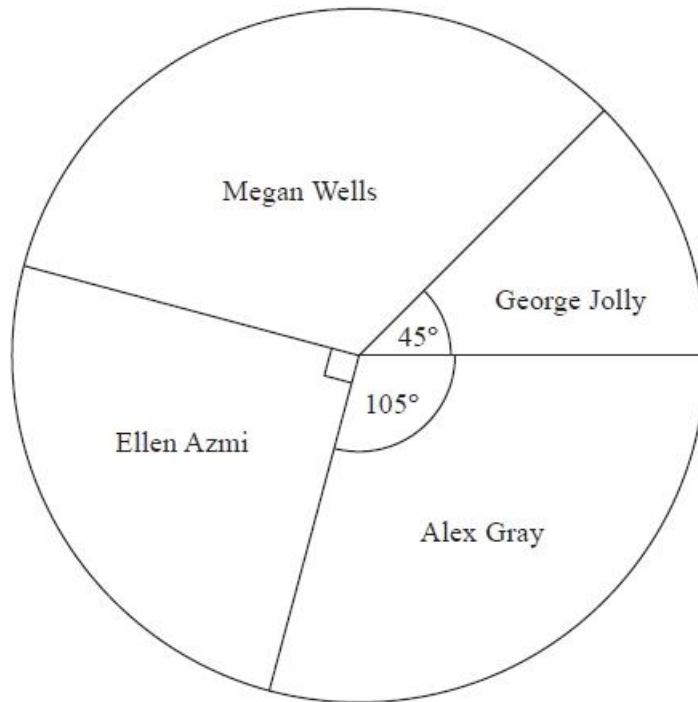
(b) How many students in Year 11 walk to school?

..... (3)

**(Total for Question is 5 marks)**

**Q5.**

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)

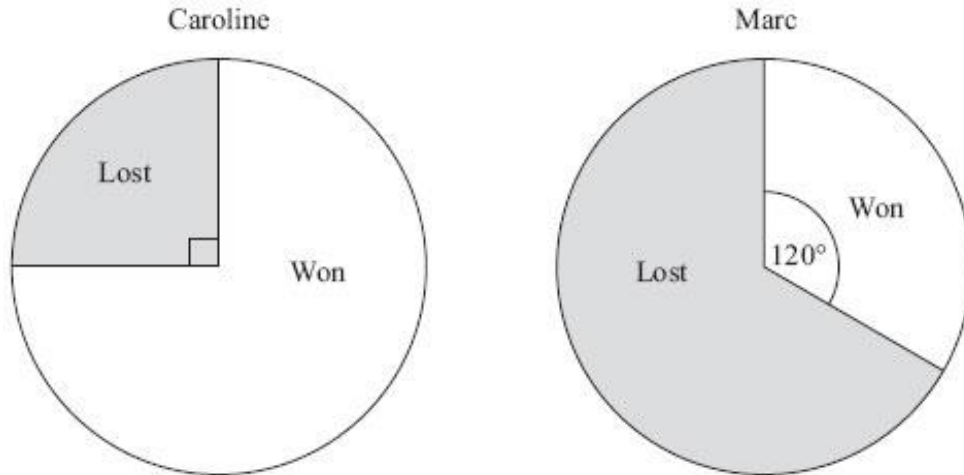
**(Total for question = 4 marks)**

**Q6.**

Caroline and Marc are in a darts team.

The pie charts show information about the number of games Caroline and Marc each won last year.

They also show information about the number of games Caroline and Marc each lost last year.



Caroline played 52 games.

Marc played 150 games.

Marc won more games than Caroline.

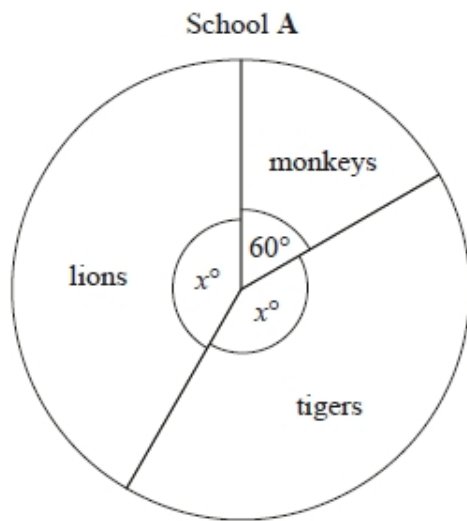
How many more?

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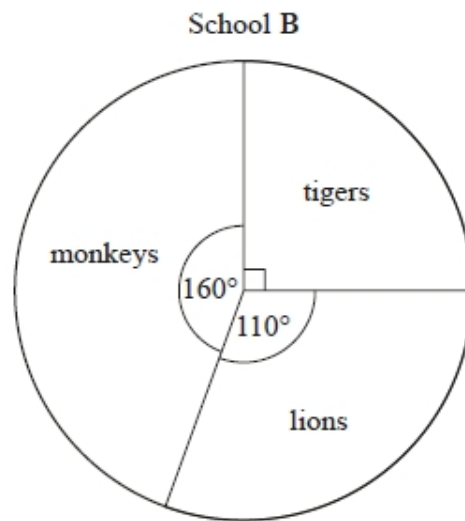
**(Total for Question is 3 marks)**

**Q7.**

The pie charts show information about the favourite animal of each student at school **A** and of each student at school **B**.



There are 480 students at school A.



There are 760 students at school B.

Henry says,

"The same number of students at each school have tigers as their favourite animal."

Is Henry correct?

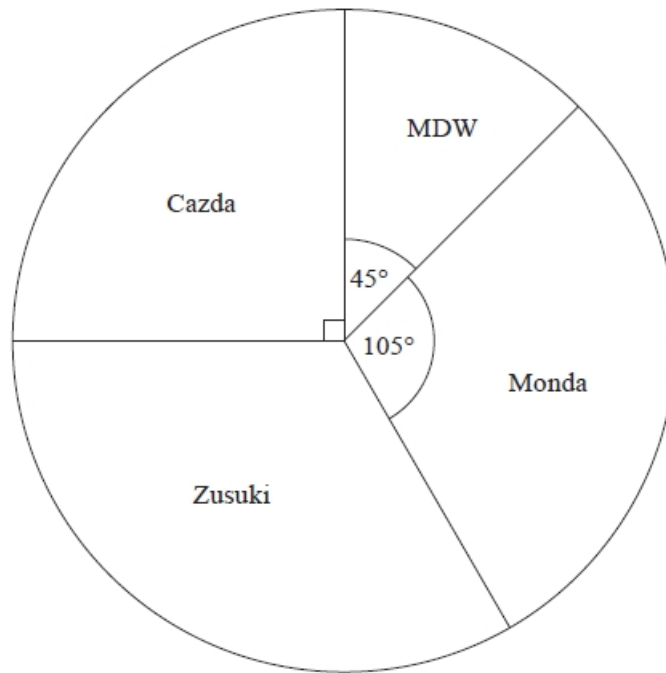
You must show how you get your answer.

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

**Q8.**

Some drivers are asked which make of car they like best.

The pie chart and table show some information about their answers.



Complete the table.

Make of car	Number of drivers	Angle of sector
MDW	18	45°
Cazda	.....	90°
Zusuki	48	.....
Monda	.....	105°

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



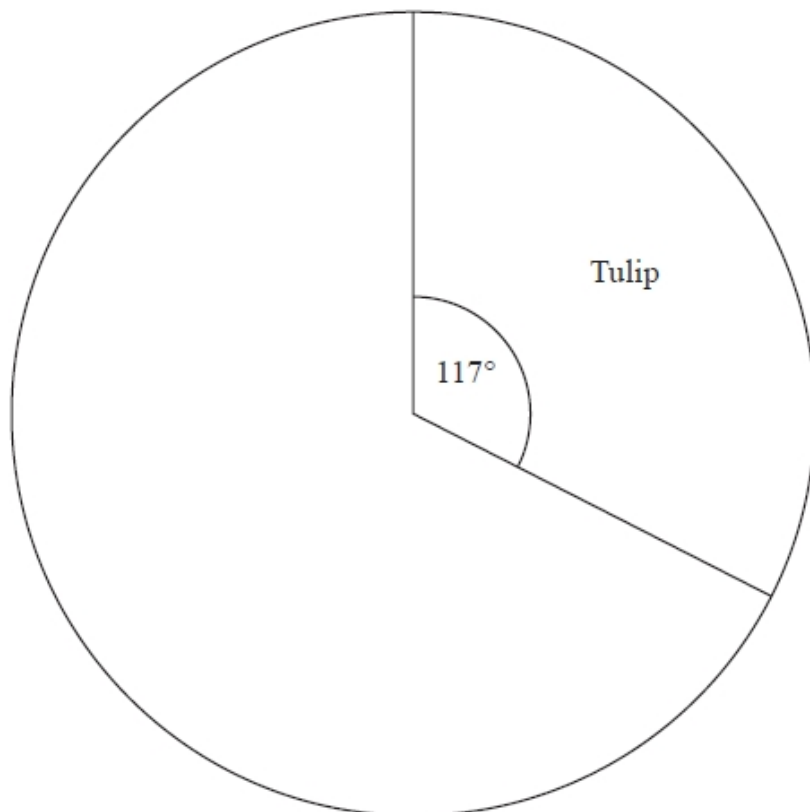
**Q9.**

Linda planted 400 flower bulbs.

She planted daffodil bulbs, tulip bulbs and hyacinth bulbs.

The incomplete table and pie chart show some information about the bulbs.

Type of bulb	Number planted
Daffodil	180
Tulip	.....
Hyacinth	.....
<b>Total</b>	<b>400</b>



Complete the table and the pie chart.

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

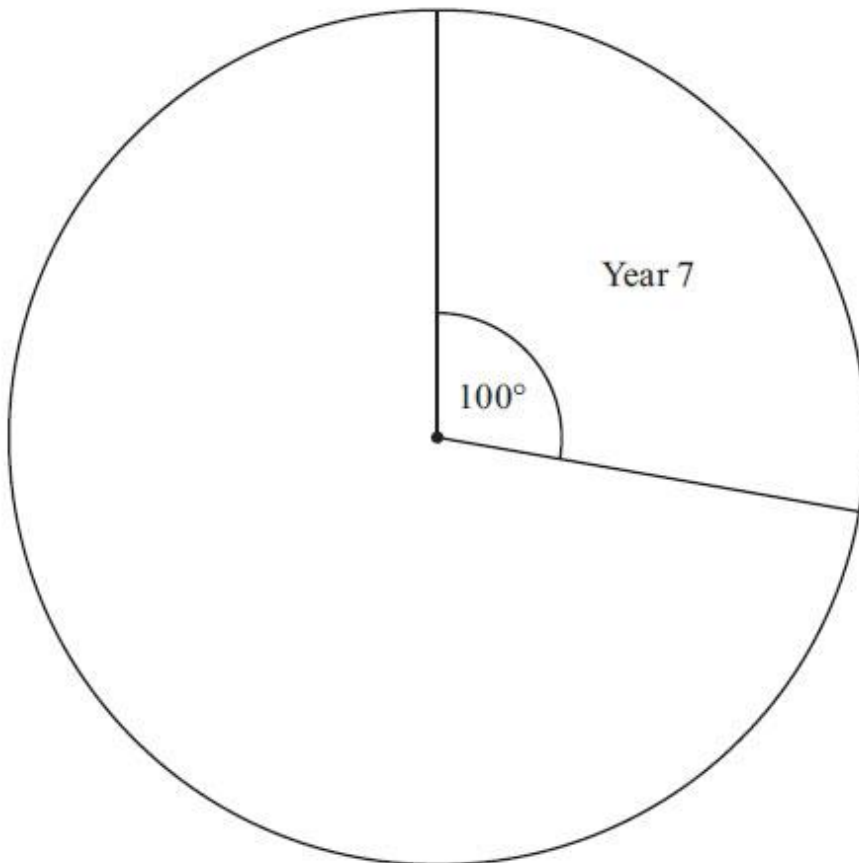
**Q10.**

Each year group in a school raised money for charity.

The incomplete table and pie chart show some information about this.

Complete the table.

Year Group	Amount raised
7	.....
8	£225
9	.....
10	£125
11	£162.50
	£900



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