

Pie Charts

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You *can* use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

- 1** A group of pupils were asked to name their favourite subject at school. (Level 4)
The results are shown in the table below.

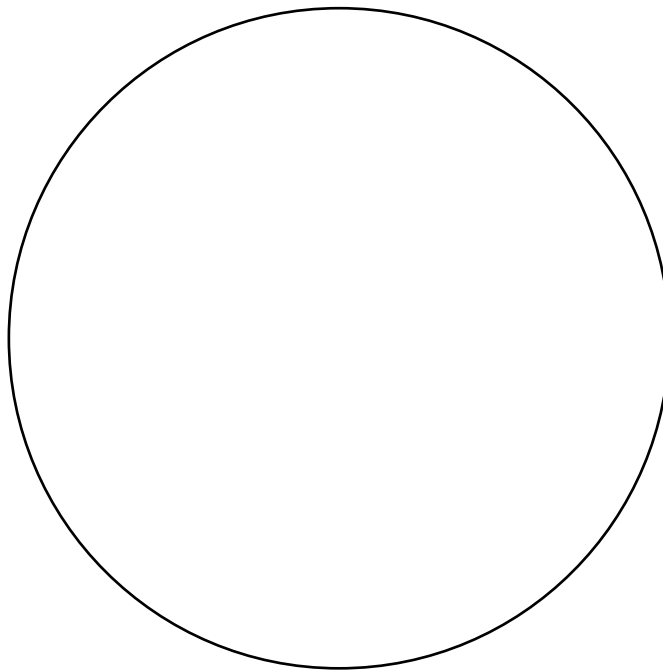
Subject	Frequency	Angle
Maths	20	
English	15	
Science	8	
PE	17	
Total		

- 1(a)** Calculate the angles required to represent each subject in a pie chart.

[3 marks]

- 1(b)** Draw a pie chart to illustrate this data.

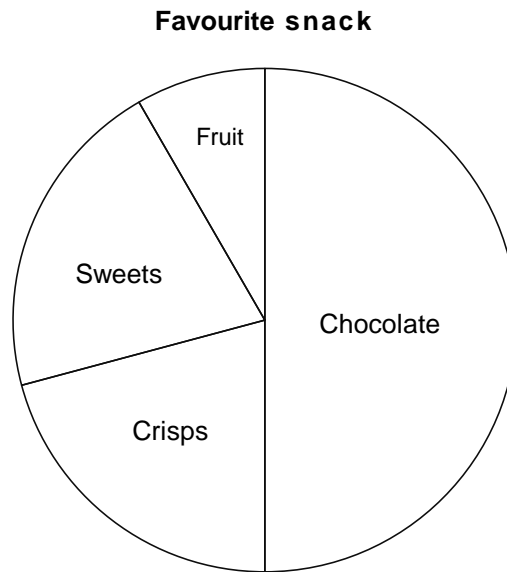
[3 marks]



2 Some people were asked to name their favourite snack.

(Level 4)

The pie chart below shows the results.



2(a) Which snack is the most popular?

[1 mark]

Answer _____

2(b) Which snacks are equally popular?

[1 mark]

Answer _____

2(c) Can you tell from the pie chart the number of people who said fruit?

Explain your answer.

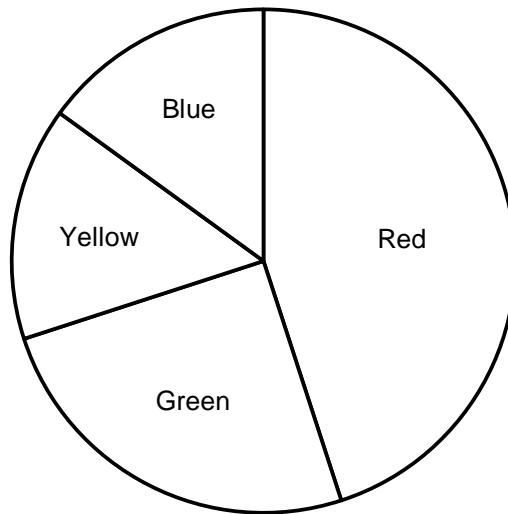
[1 mark]

Turn over for next question

- 3** 40 people were asked to choose their favourite colour.
The results are shown in the pie chart below.

(Level 4)

Favourite Colour



- 3(a)** Calculate how many people said green?
You must show your working.

[2 marks]

Answer _____

A person is selected at random.

- 3(b)** What is the probability that the person chosen at random said yellow?

[2 marks]

Answer _____

Turn over for next question

Turn over ►

- 4 The table below shows some information about the number of different makes of car in a car park. (Level 4)

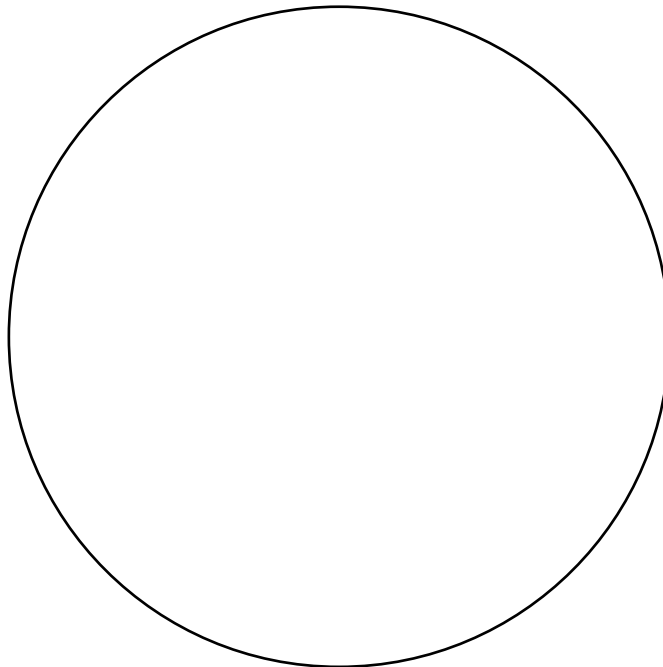
Make of car	Frequency	Angle
Ford	15	45
Nissan		72
Vauxhall	20	
Audi		63
Volkswagen		

- 4(a) Complete the table above.

[3 marks]

- 4(b) Draw a pie chart to show the information in the table.

[3 marks]

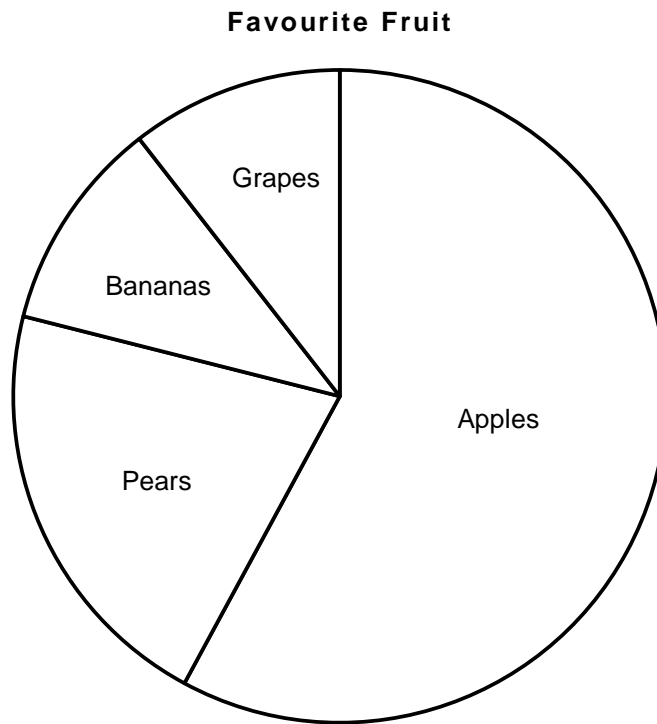


Turn over for next question

Turn over ►

- 5 A class of 30 children were asked to name their favourite fruit.
The results are shown in the pie chart below.

(Level 4)



Estimate the number of students who chose grapes

[1 mark]

Turn over for next question

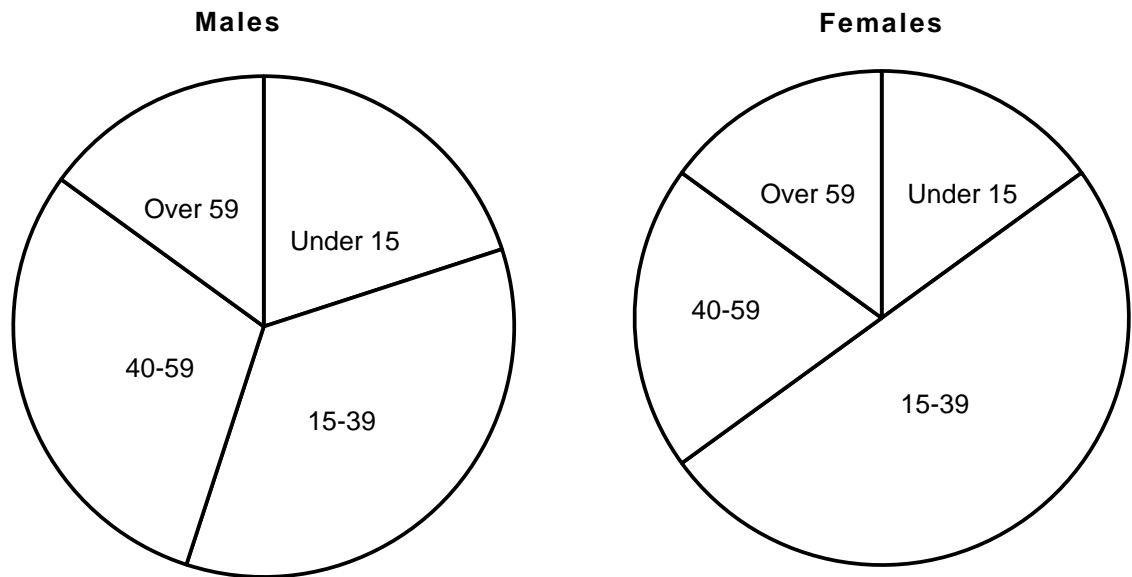
Turn over ►

6 The ages of males and females at a tennis club were recorded. (Level 5)

The results are shown in the pie charts below.

There are 250 male members.

There are the same number males aged 40-59 as there are females.



How many females are there in the tennis club.

You must show your working.

[3 marks]



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