

Pie Charts

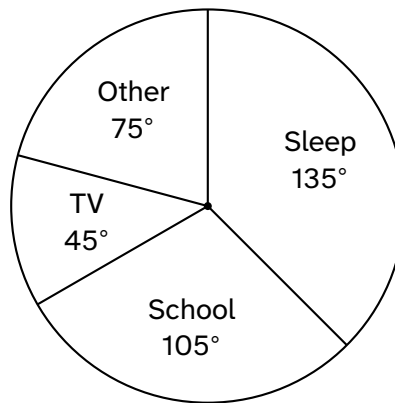
For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **21**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Pie charts that you are asked to draw need a protractor. Print this sheet at 100% so that the circles are the right size.

- 1** The accurate pie chart shows how Sam spent one day (24 hours).



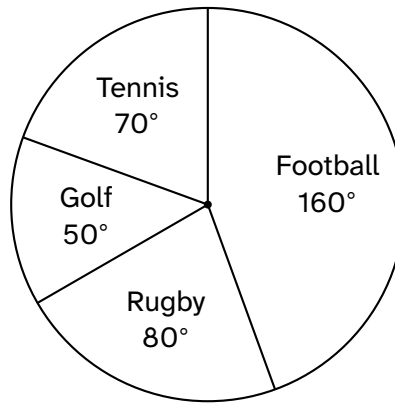
- (a) How many hours did Sam spend sleeping?

..... hours
(2)

- (b) What fraction of the day did Sam spend watching TV?
Give your answer in its simplest form.

.....
(1)
(Total for Question 1 is 3 marks)

- 2 The pie chart gives information about the favourite sport of 180 people.



- (a) Work out the number of people who chose rugby.

.....
(2)

- (b) What fraction of the people chose football?
Give your answer in its simplest form.

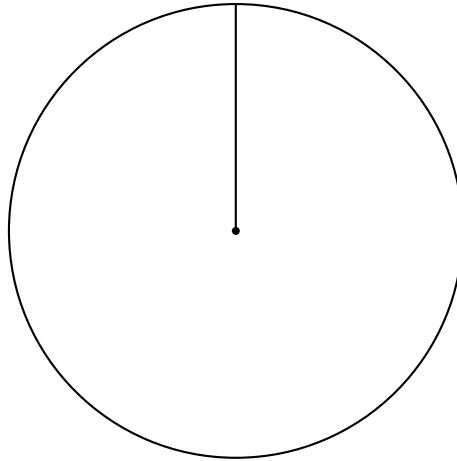
.....
(1)

(Total for Question 2 is 3 marks)

- 3** The table gives information about the favourite colour of 60 people.

Colour	Blue	Red	Green	Yellow
Frequency	17	11	20	12

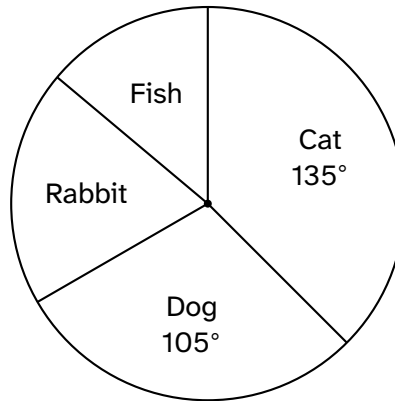
Draw an accurate pie chart for this information.



(4)

(Total for Question 3 is 4 marks)

- 4 The pie chart shows information about the pets owned by some people.



45 people own a cat.

Work out the number of people who own a dog.

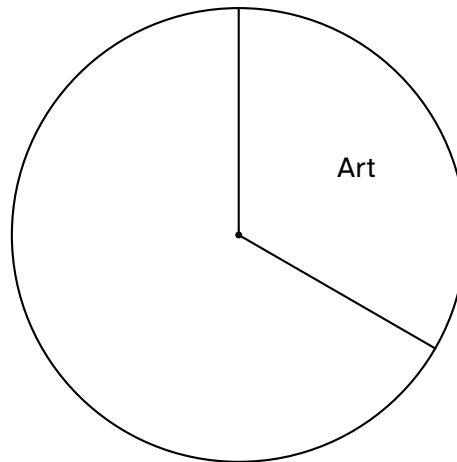
.....
(3)

(Total for Question 4 is 3 marks)

- 5 The table shows the after-school club chosen by each of 90 students in Year 8.

Club	Art	Drama	Chess
Number of students	30	35	25

- (a) Complete the accurate pie chart to show this information.



(3)

- (b) Ben says,

“The angle for Chess should be 25° because 25 students chose Chess.”

Explain what is wrong with what Ben says.

(1)

(Total for Question 5 is 4 marks)

- 6 A zoo sells adult, child and senior tickets.
The table shows the numbers of tickets sold on Saturday.

Ticket	Adult	Child	Senior
Number sold	210	190	100

The pie chart shows information about the 600 tickets sold on Sunday.

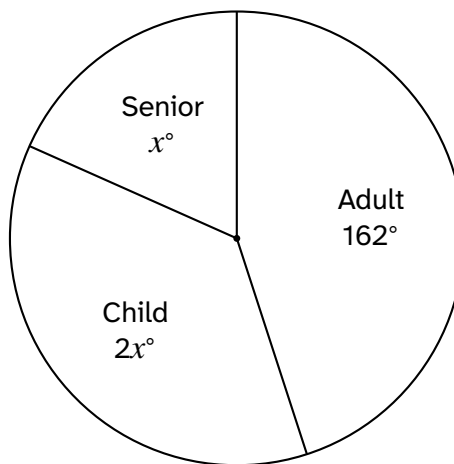


Diagram **NOT** accurately drawn

Alfie says,

“Fewer senior tickets were sold on Sunday than on Saturday.”

Is Alfie correct?

You must show how you get your answer.

(4)

(Total for Question 6 is 4 marks)