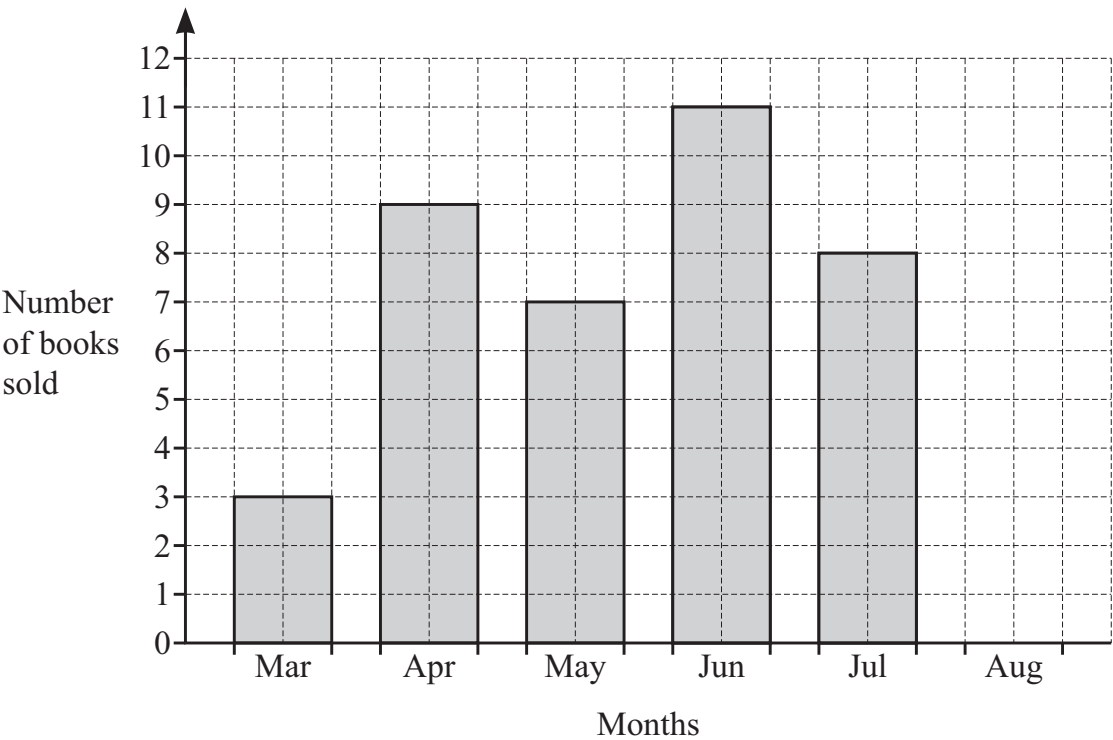


10 The bar chart shows the number of books sold in a shop in each of five months.



(a) 4 books were sold in August.

Complete the bar chart. [1]

(b) Calculate the mean number of books sold in the six months.

..... [2]

11 The temperature at midnight is -2°C .
The temperature at noon is 5°C .

(a) Find the difference between these temperatures.

..... $^{\circ}\text{C}$ [1]

(b) The temperature at 9 am is 8°C higher than the temperature at midnight.

Work out the temperature at 9 am.

..... $^{\circ}\text{C}$ [1]

14 These are the ages, in **months**, of each of 12 children.

11	27	8	10	26	17	28	12	9	13	22	12
----	----	---	----	----	----	----	----	---	----	----	----

(a) Complete the stem-and-leaf diagram to show this information.

0	
1	
2	

Key: 1 | 7 represents 17 months

[2]

(b) Find the number of children over 2 **years** old.

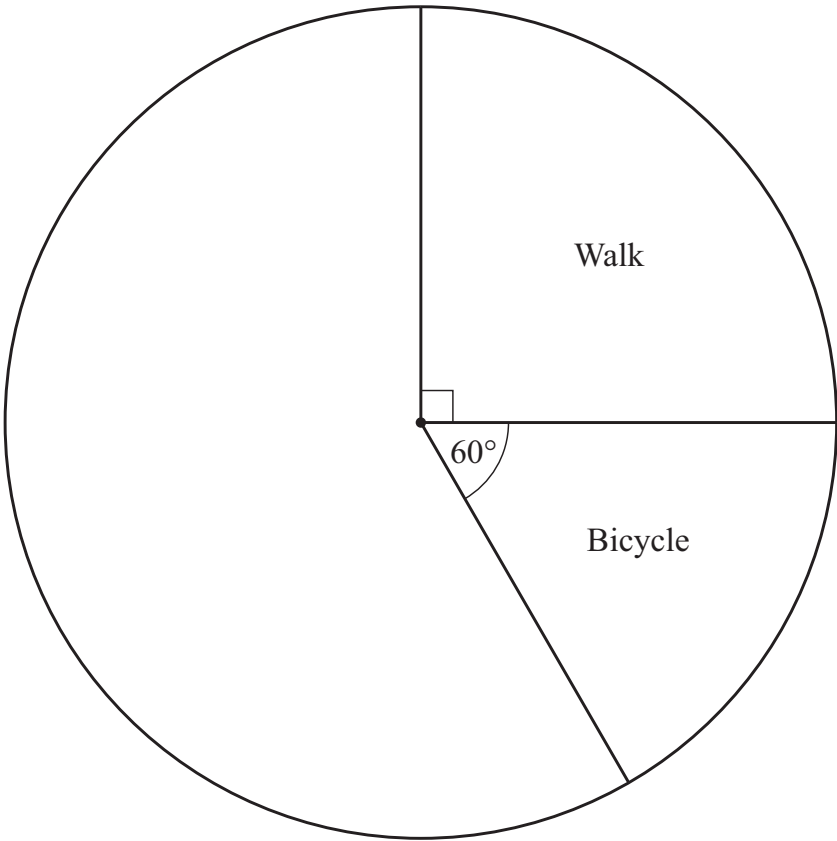
.....

[1]

(c) Show that the median is 12.5 .

[1]

5 The pie chart shows some information about the way 600 students travel to school.



(a) Work out the number of students that walk to school.

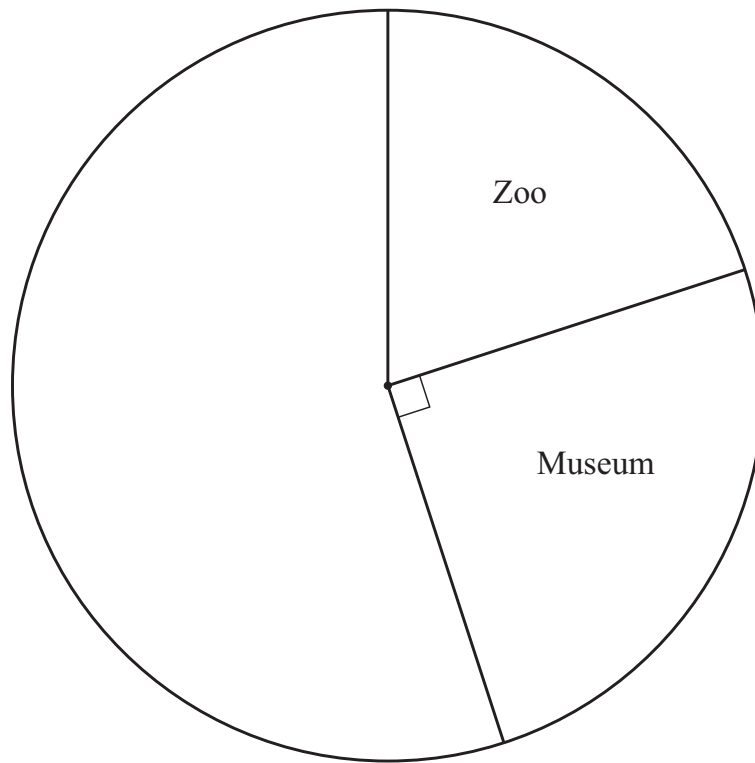
..... [2]

(b) 120 of the students travel to school by car.
The remaining students travel by bus.

Complete the pie chart.

[3]

- 12** 300 students choose where to go on a trip.
The students choose either a zoo, a museum, an art gallery or a sports stadium.



- (a)** Show that 75 students choose the museum.

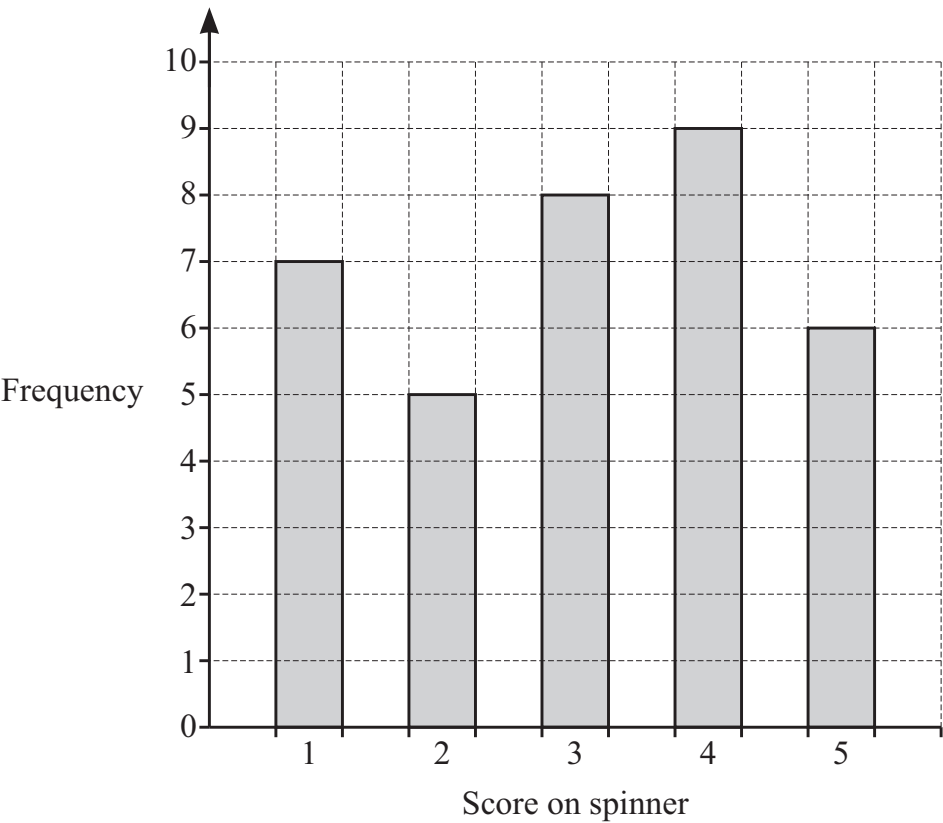
[1]

- (b)** 45 students choose the art gallery and 120 students choose the sports stadium.

Complete the pie chart to show this information.

[2]

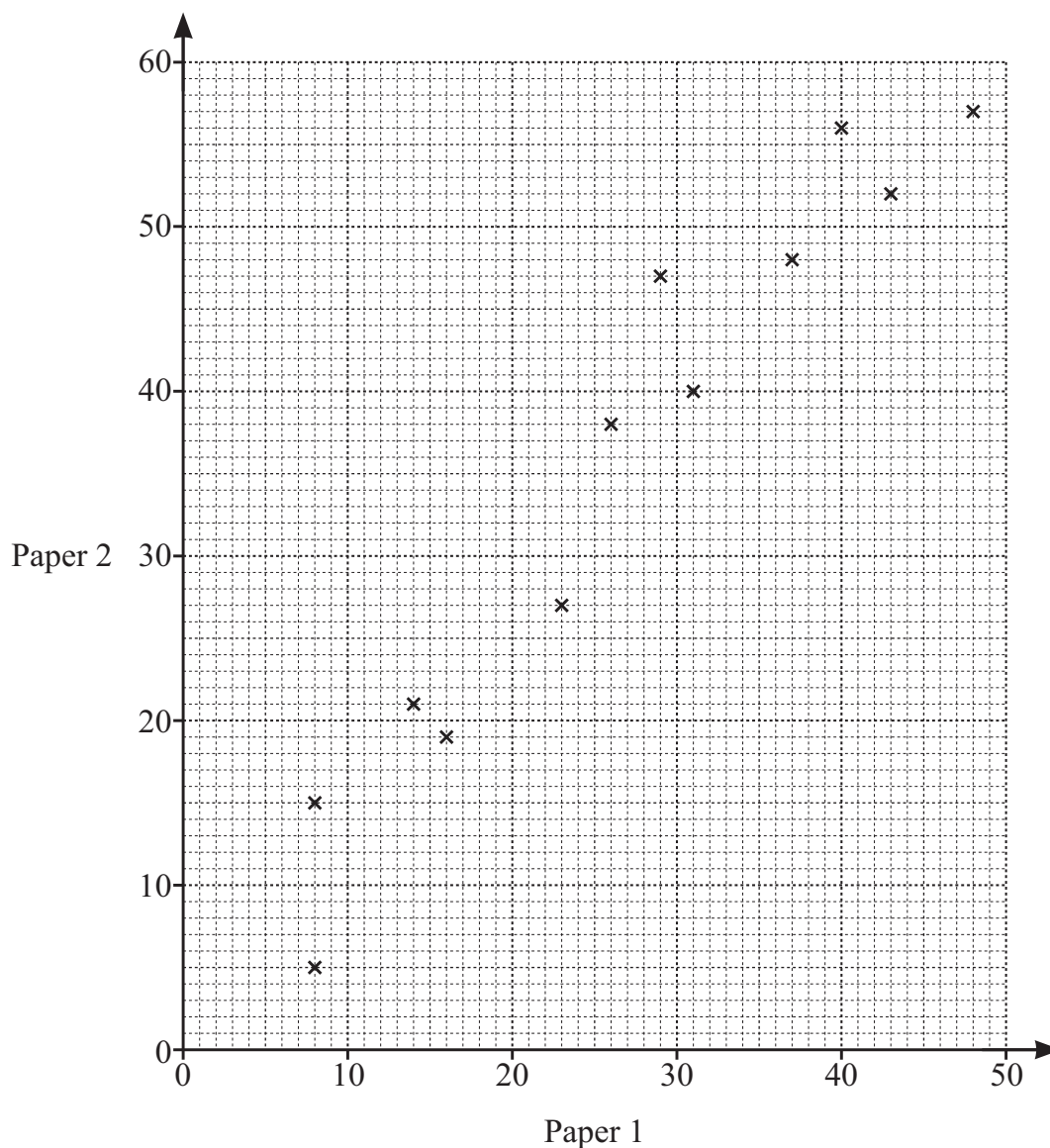
10 The bar chart shows the frequency of each score on a spinner.



Calculate the mean score.

..... [3]

- 18** A school records the marks students score in Paper 1 and Paper 2 of a subject. The scatter diagram shows the scores for twelve students.



- (a)** What type of correlation is shown in the scatter diagram?

..... [1]

- (b)** On the scatter diagram, draw a line of best fit.

[1]

- (c)** Another student scores 35 on Paper 1.

Use your line of best fit to find an estimate for their score on Paper 2.

..... [1]

9 The table shows some information about the marks scored by a group of students in a test.

Test mark	4	5	8
Frequency	2	4	n

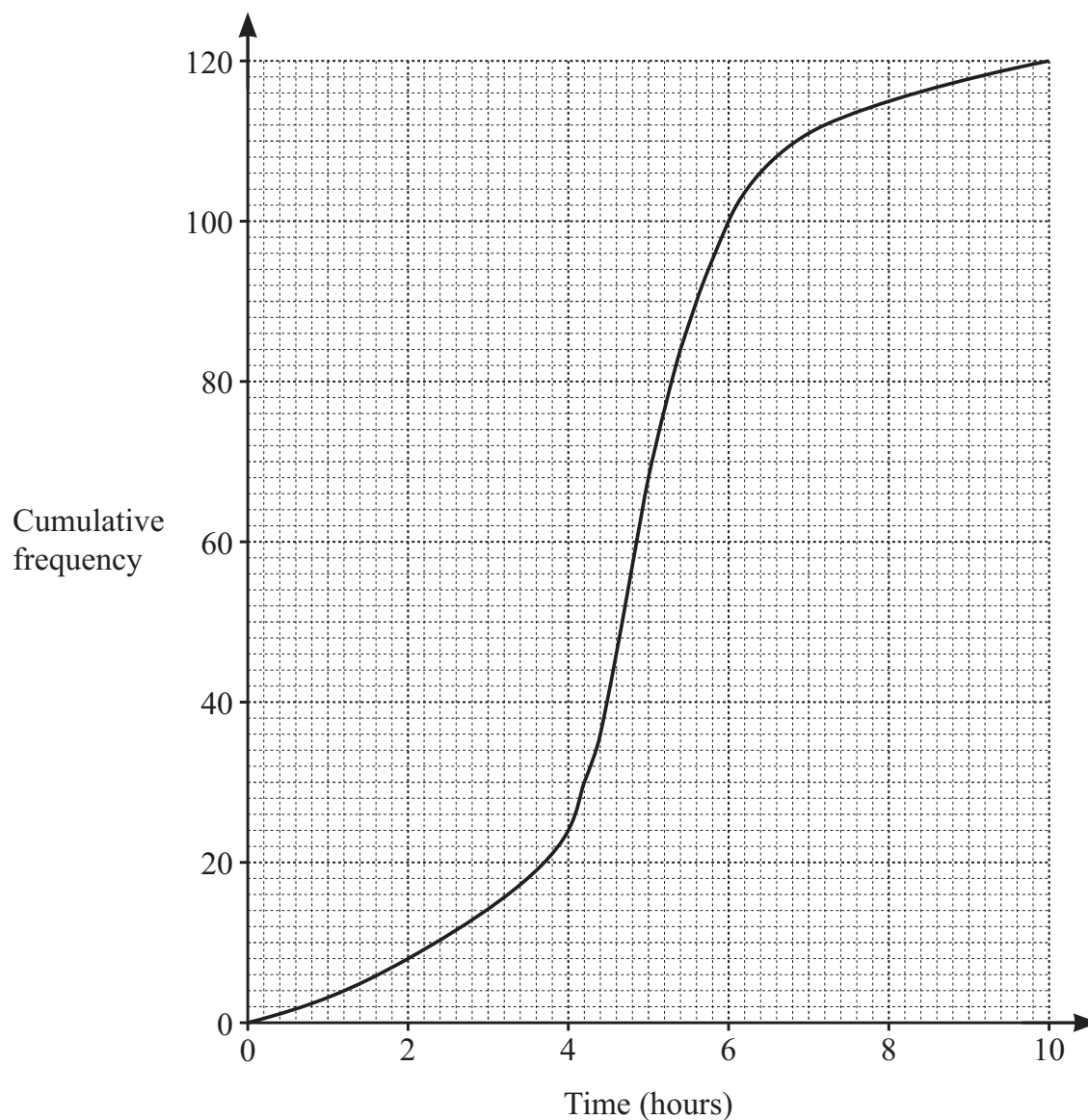
The mean mark is 6.

Work out the value of n .

$n =$

[3]

- 12** The time spent on the internet by each of 120 adults is recorded for one day. The cumulative frequency diagram shows this information.



- (a)** Use the cumulative frequency diagram to find an estimate of the interquartile range.

..... h [2]

- (b)** 70% of the adults spent less than k hours on the internet.

Use the cumulative frequency diagram to find an estimate of the value of k .

$k =$ [2]