

Statistics

ANSWERS

Calculator | 30 minutes | Total marks: 25

Name _____ Class _____

1 Here are the favourite fruits of 12 students.

apple banana grapes banana apple banana
grapes apple banana apple grapes banana

Complete the tally chart.

Fruit	Tally	Frequency
Apple		4
Banana		5
Grapes		3 (1)(1)

[2 marks]

2 Here are five numbers.

6 3 8 3 5

(a) Write down the mode.

Answer 3 (1) [1 mark]

(b) Work out the median.

3, 3, 5, 6, 8 (1)

Answer 5 (1) [2 marks]

(c) Work out the mean.

25 ÷ 5 (1)

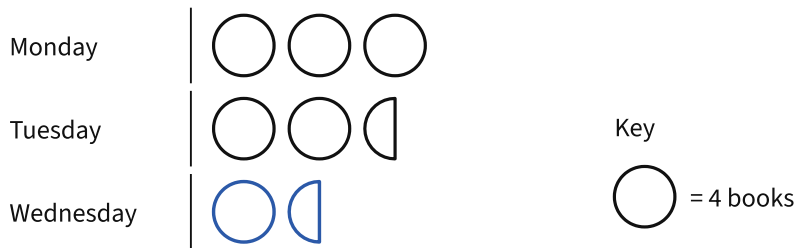
Answer 5 (1) [2 marks]

(d) Work out the range.

Answer 5 (1) [1 mark]

3

The pictogram shows the number of books borrowed from a library.



(a) How many books were borrowed on Monday?

Answer 12 (1) [1 mark]

(b) How many books were borrowed on Tuesday?

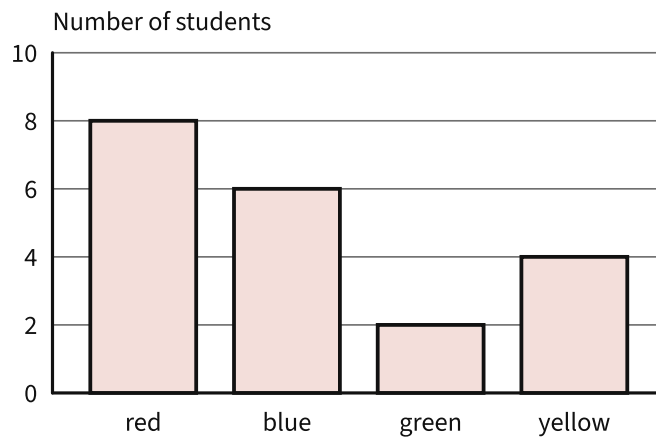
Answer 10 (1) [1 mark]

(c) 6 books were borrowed on Wednesday. Show this on the pictogram.

[1 mark]

4

The bar chart shows the favourite colours of some students.



(a) How many students chose blue?

Answer 6 (1) [1 mark]

(b) How many more students chose red than green?

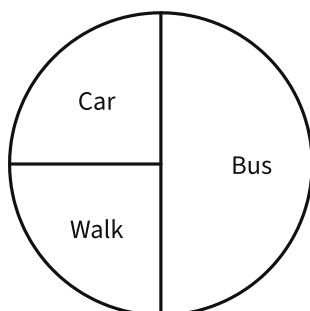
Answer 6 (1) [1 mark]

(c) How many students are there altogether?

Answer 20 (1) [1 mark]

5

The pie chart shows how 40 students travel to school.



How many students walk to school?

a quarter of 40 (1)

Answer 10 (1) [2 marks]

6

The two way table shows the favourite drink of 30 adults.

Complete the table.

	Tea	Coffee	Total
Men	7	5	12 (1)
Women	6 (1)	12	18
Total	13	17 (1)	30

[3 marks]

7

The table shows the number of pets owned by 20 students.

Number of pets	0	1	2	3
Frequency	5	8	4	3

(a) Write down the mode.

Answer 1 (1) [1 mark]

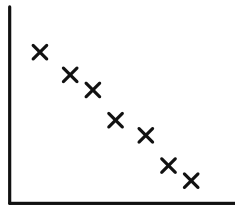
(b) Work out the mean.

0 + 8 + 8 + 9 = 25, then 25 ÷ 20 (1)

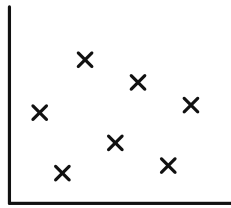
Answer 1.25 (1) [2 marks]

8

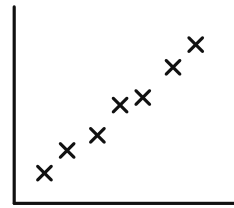
(a) Here are three scatter graphs.



A



B



C

Write down the letter of the graph that shows positive correlation.

Answer C (1)

[1 mark]

(b) Write discrete or continuous next to each type of data.

the number of goals in a match

discrete (1)

the height of a plant

continuous (1)

[2 marks]

Question	Topic	RAG
1	I can complete a tally chart	
2	I can find the mode, median, mean and range	
3	I can read and draw a pictogram	
4	I can read a bar chart	
5	I can interpret a pie chart	
6	I can complete a two way table	
7	I can find averages from a frequency table	
8	I can recognise correlation and types of data	