

Data and Scatter Graphs

ANSWERS

Ruler | 30 minutes | Total marks: 19

Name

Class

1 Here are the pets owned by 12 students.

cat dog dog fish cat dog
rabbit dog cat dog fish dog

(a) Complete the tally chart.

Pet	Tally	Frequency
Cat		3
Dog		6
Fish		2
Rabbit		1 (1)(1)(1)

Lose 1 mark for each wrong frequency

[3 marks]

(b) Which pet is the most common?

Answer dog (1)

[1 mark]

2 Write words or numbers next to each type of data to show how it is recorded.

eye colour words (1)

shoe size numbers (1)

[2 marks]

3

The two way table shows the favourite sport of 25 students.

	Football	Tennis	Total
Boys	9	3	12
Girls	6	7	13
Total	15	10	25

(a) Complete the two way table.

1 mark for each correct number

[3 marks]

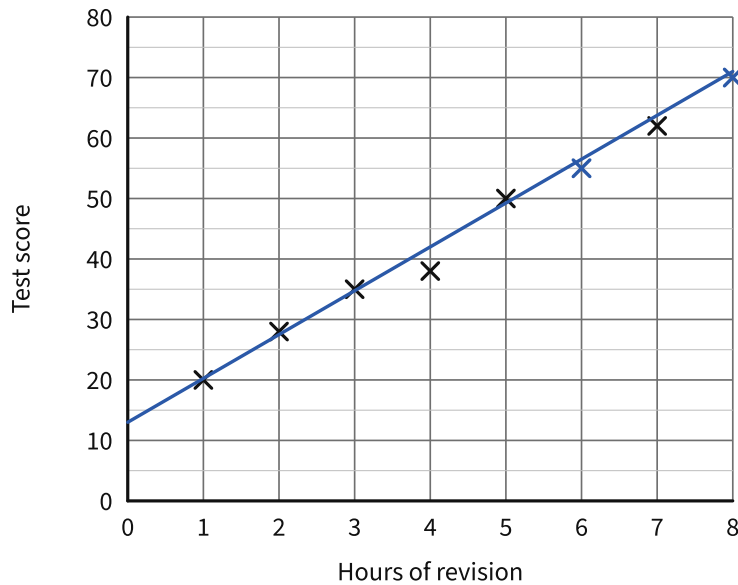
(b) How many girls chose tennis?

Answer 7 (1)

[1 mark]

4

The scatter graph shows the hours of revision and the test scores of six students.



(a) Describe the correlation.

Answer positive (1)

[1 mark]

(b) Two more students did the test.

One revised for 6 hours and scored 55. The other revised for 8 hours and scored 70

Plot these two points on the scatter graph.

[2 marks]

(c) Draw a line of best fit.

[1 mark]

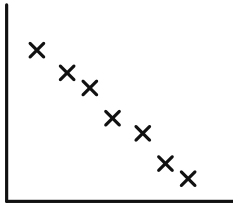
(d) Use your line to estimate the score of a student who revised for 4.5 hours.

Answer 45 (1) accept 40 to 50

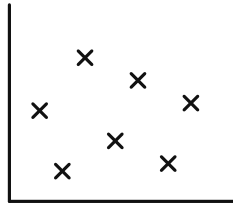
[1 mark]

5

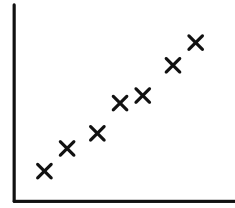
Here are three scatter graphs.



A



B



C

Write the letter of the graph that shows

positive correlation C (1)

[1 mark]

negative correlation A (1)

[1 mark]

no correlation B (1)

[1 mark]

6

Amy asks 10 people a question. Ben asks 200 people the same question.

Whose results are more reliable?

Give a reason for your answer.

Ben's, because he asked more people (1)

[1 mark]

Question	Topic	RAG
1	I can complete a tally chart	
2	I know how different data is recorded	
3	I can complete and read a two way table	
4	I can use a scatter graph	
5	I can recognise types of correlation	
6	I know that bigger samples are more reliable	