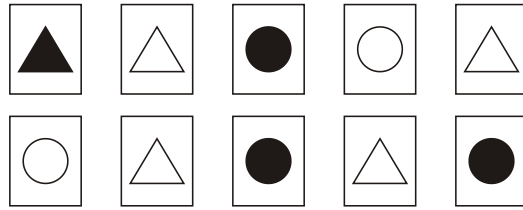


1. Here is a pack of ten cards.



(a) Complete this two-way table to show the number of different cards in the pack.

	Shaded	Unshaded
Circles		
Triangles		

(2)

(b) One of the cards is picked at random.
What is the probability that it has either a shaded circle **or** an unshaded triangle?

Answer.....

(2)

(Total 4 marks)

2. Jane conducts a survey of the favourite colours of the students in her class.
She records the results.

Male	Red	Female	Yellow
Male	Yellow	Female	Red
Male	Red	Female	Green
Female	Green	Female	Green
Female	Red	Male	Red
Male	Green	Male	Yellow
Male	Green		

Record the results in a two-way table.

(Total 3 marks)

3. Karin is collecting data about the number of brothers and the number of sisters of the people in her class.
Karin's results are given in the two-way table.

		Number of brothers			
		0	1	2	3
Number of sisters	0	6	7	1	2
	1	4	3	0	1
	2	1	2	1	0
	3	1	1	0	0

- (a) How many people have one brother?

.....

Answer

(2)

- (b) How many people have more brothers than sisters?

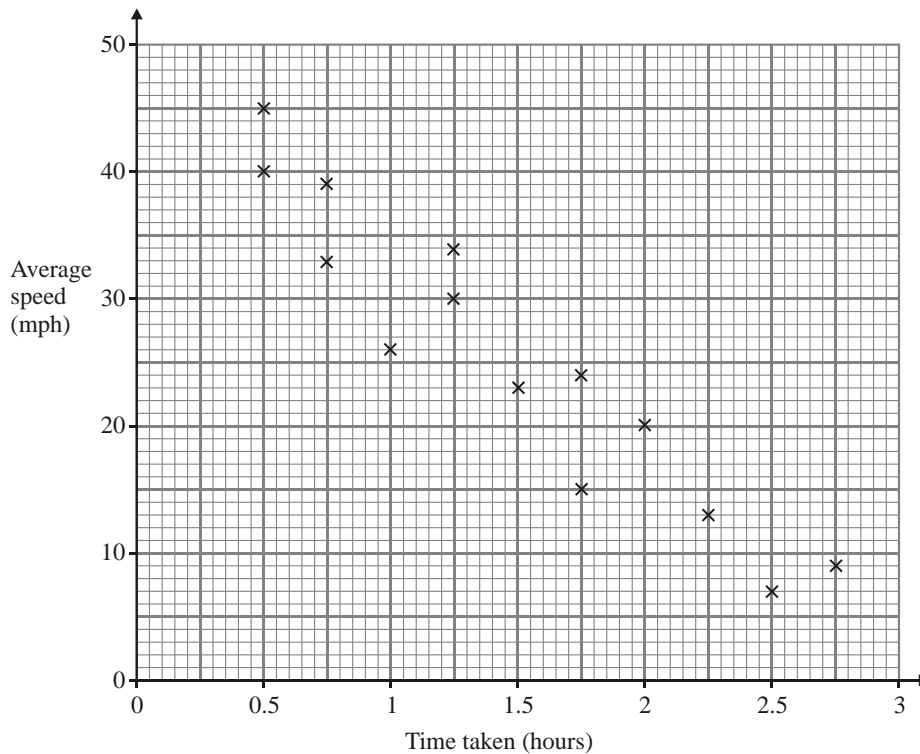
.....

Answer

(2)

(Total 4 marks)

4. Steve records the time taken and the average speed for several different journeys.
This information is shown on the scatter graph.



- (a) Draw a line of best fit on the scatter graph.

(1)

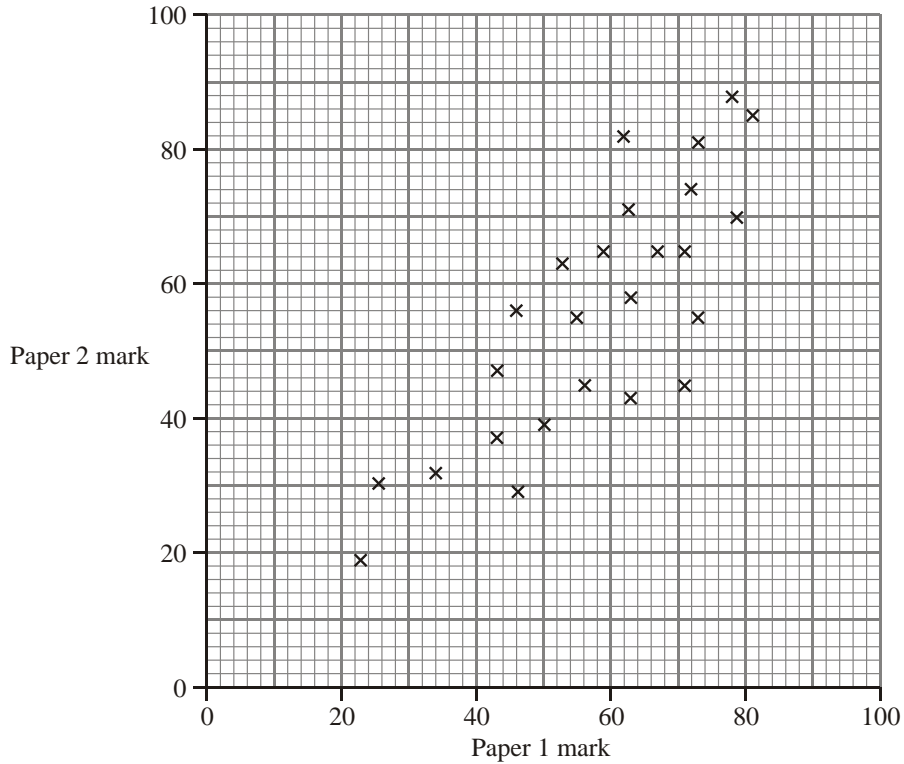
- (b) Describe the relationship between the time taken and the average speed.

.....

(1)

(Total 2 marks)

5. Mrs Millington gives her class two mock GCSE examination papers. The scatter graph shows the results.



- (a) Write down the highest mark scored on Paper 2.

Answer marks

(1)

- (b) Describe the relationship shown on the scatter graph.

.....

(1)

- (c) Draw a line of best fit on the scatter graph.

(1)

- (d) Kay was absent for Paper 2, but scored a mark of 56 on Paper 1. Use your line of best fit to estimate Kay's mark on Paper 2.

.....

Answer marks

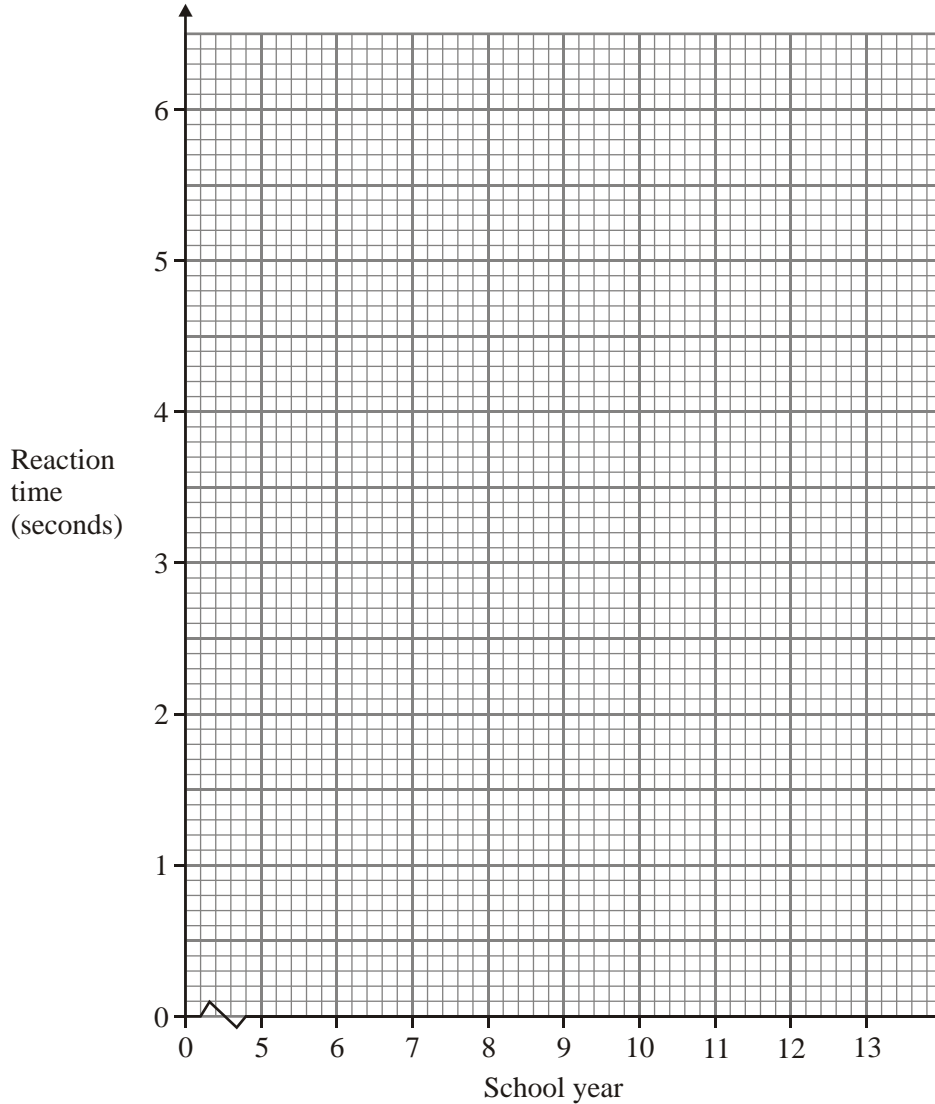
(1)

(Total 4 marks)

6. The table shows the school year and the reaction time of eight people who took part in the same test.

School year	5	7	8	9	10	11	12	13
Reaction time (seconds)	6	5	4.8	4.5	4	4.2	3.5	3

- (a) Draw a scatter graph of these data.



(2)

- (b) Draw a line of best fit on your scatter graph.

(1)

- (c) Describe the relationship shown by your scatter graph.

.....

(1)

- (d) Use your line of best fit to estimate the reaction time of a person in school year 12.

Answer seconds

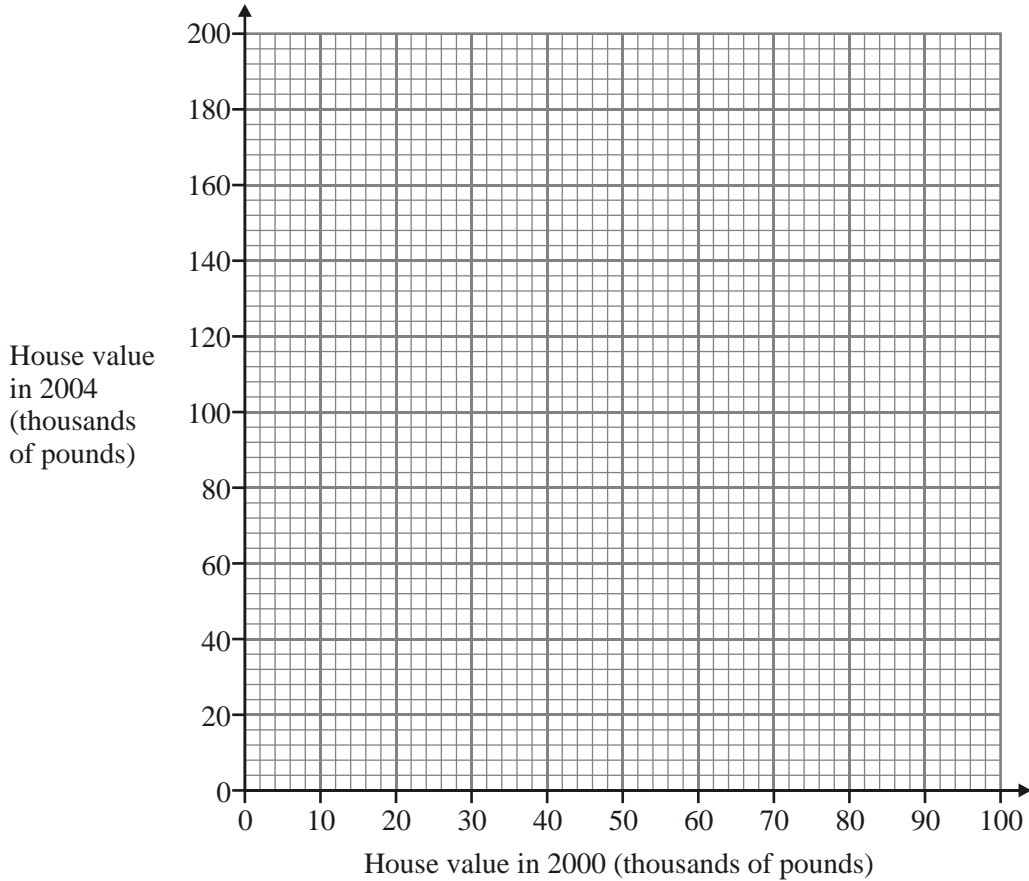
(1)

(Total 5 marks)

7. The value of six houses in 2000 is compared to the value of similar houses in 2004. Here are the results.

House value in 2000 (thousands of pounds)	20	30	40	60	70	90
House value in 2004 (thousands of pounds)	40	60	70	100	140	170

- (a) Draw a scatter graph of these results.



(2)

- (b) Describe the relationship shown in the scatter graph.

.....

(1)

- (c) In 2000 a house was valued at £80 000.

Estimate the value of a similar house in 2004.

.....

Answer £

(2)

(Total 5 marks)