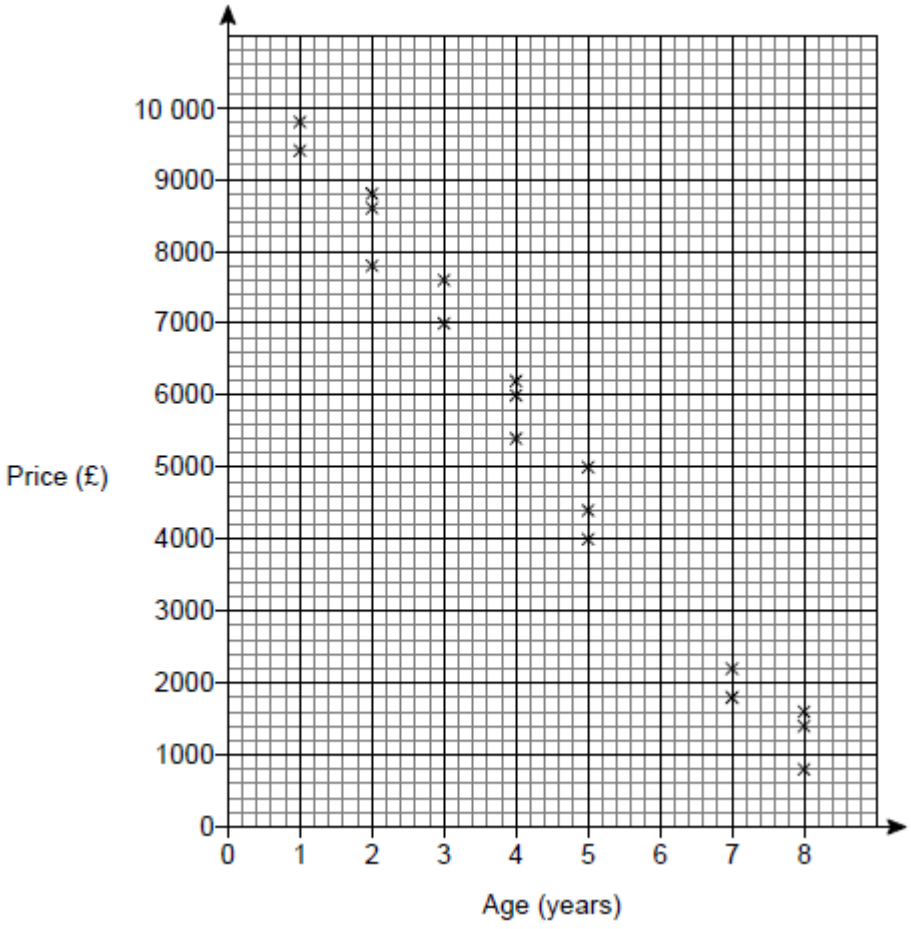
Q1.

The scatter graph shows the age and the price of 18 cars.

The cars are all the same make and model.



Use a line of best fit to estimate the price of a 6-year old car.

Answer £.....

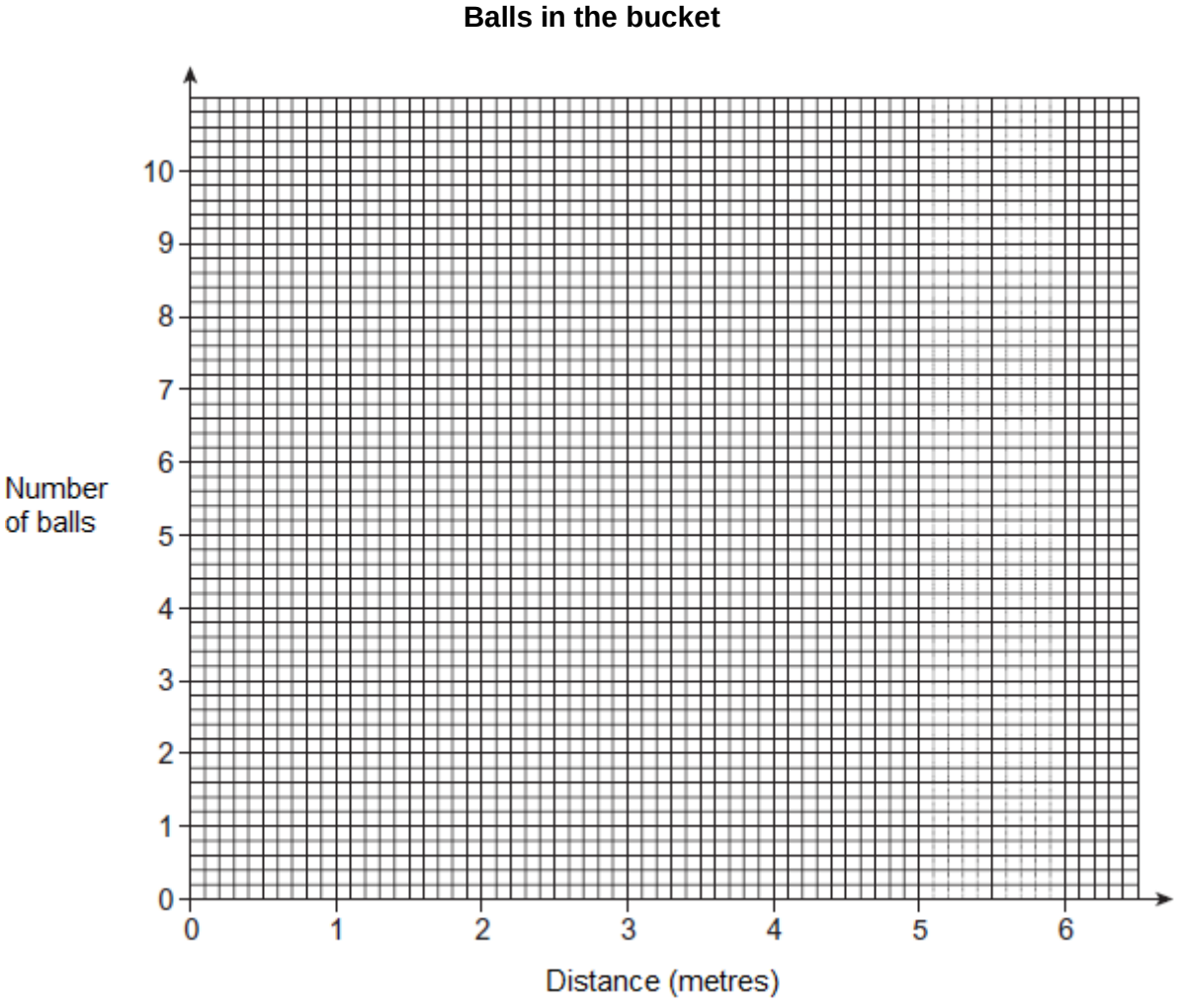
(Total 2 marks)

Q2. Matthew tried to throw balls into a bucket from different distances.
He threw 10 balls from each distance.

His results are shown in the table.

Distance (metres)	2.0	2.5	3.2	4.1	4.5	5.3	6.0
Number of balls in the bucket	9	7	8	6	2	4	1

(a) Plot these results as a scatter graph.



(2)

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

(1)

(c) What type of correlation is shown?

Answer .....

(1)

(d) Matthew is organising a game at the school fayre.

Each player will be given 10 attempts to throw a ball into a bucket.
He wants the average number in the bucket to be 5.

Use your line of best fit to decide how far the bucket should be from each player.

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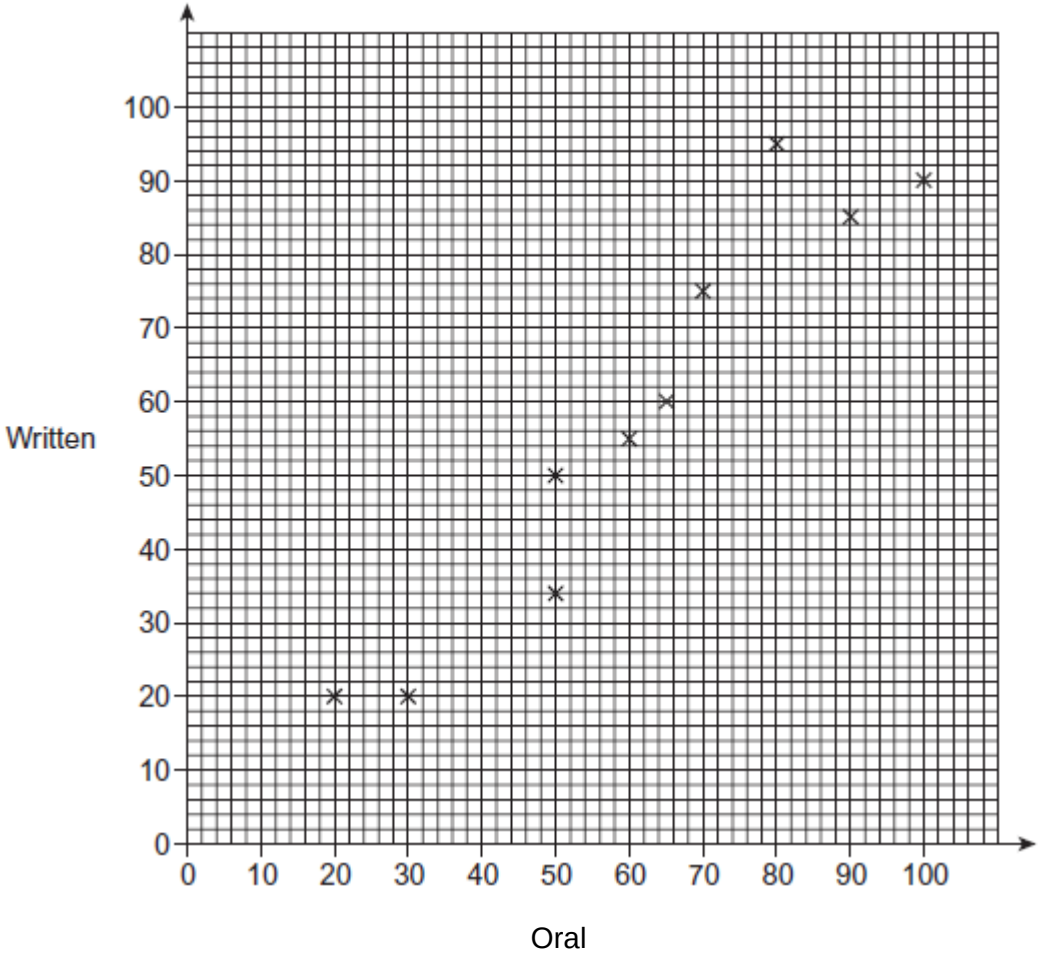
Answer ..... metres

(2)
(Total 6 marks)

Q3. The scatter diagram shows the scores of 10 students in their Oral and Written tests.



(a) How many students scored 50 in their Oral test?

Answer .....

(1)

(b) Four **more** students take the same tests.
The table shows their scores.

Oral	10	94	52	84
Written	15	90	46	80

Plot the scores on the scatter diagram.

(2)

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

(1)

(d) Rob scored 40 in the Oral test.
He was absent for the Written test.

Use your line of best fit to estimate a score for him in the Written test.

Answer .....

(1)
(Total 5 marks)