AQA, OCR, Edexcel

**GCSE** 

## **GCSE Maths**

Scatter Graphs

Name:

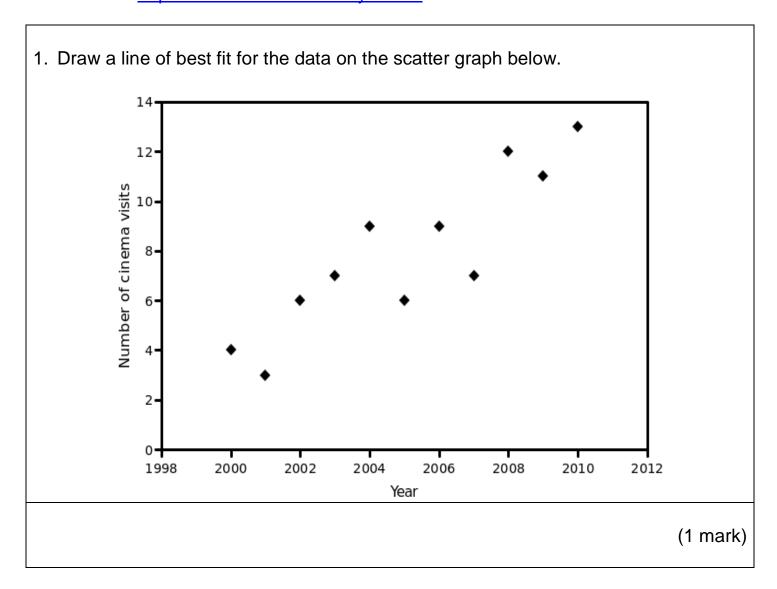


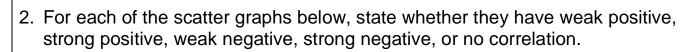


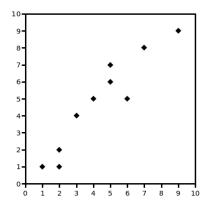
## Guidance

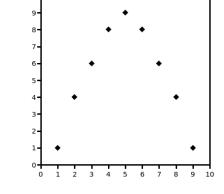
- 1. Read each question carefully.
- Don't spend too long on each question.
- Don't spend too long on
  Attempt every question.
- Always show your workings.

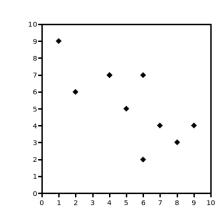
**Revise GCSE Maths:** www.MathsMadeEasy.co.uk/gcse-maths-revision/

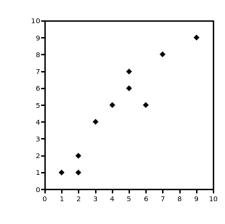


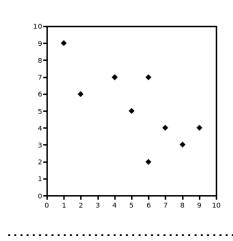


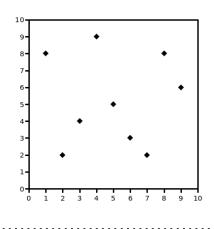








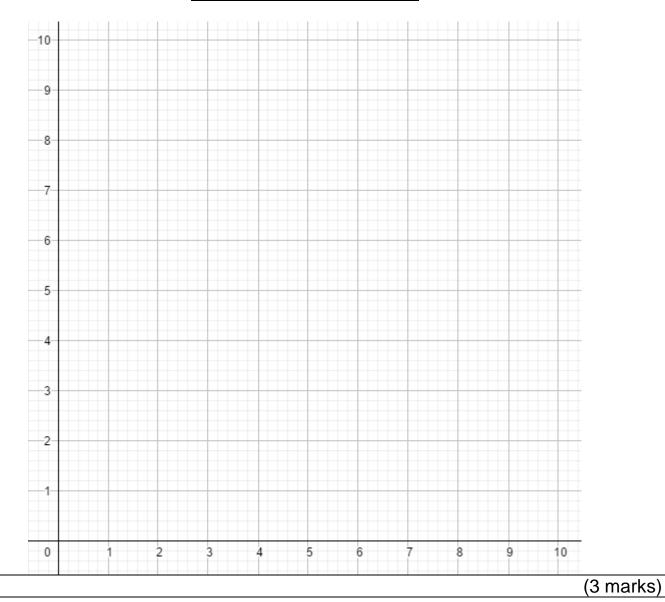




(6 marks)

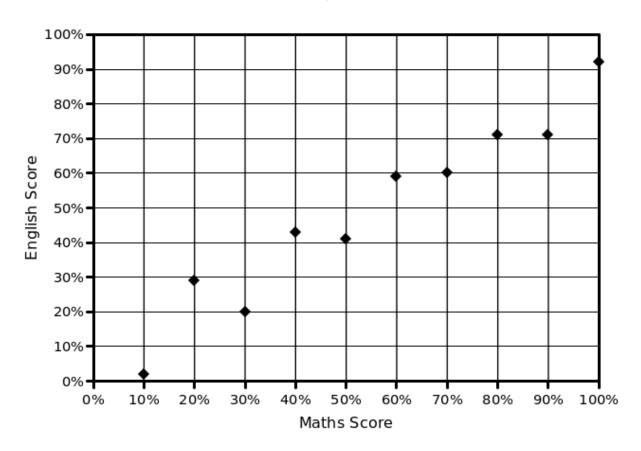
3. Plot the following data as a scatter graph below, labelling your axis.

Rainy days	Umbrellas
in June	sold
9	9
5	6
6	4
3	2
2	3
7	5
8	8
1	0
4	3
0	2



4. Maths and English test scores for 10 students in a class are plotted in a scatter graph.

Draw a line of best fit for the data on the graph below.



Another student in the class scores 55% on their maths test - what is their likely English score?

.....

Score = .....

Why is this an appropriate approximation?

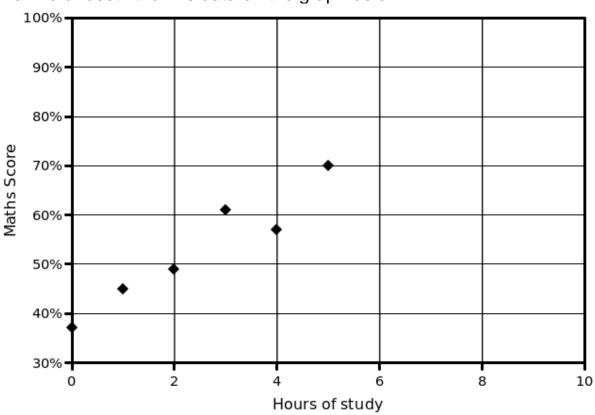
.....

.....

(1 mark, 1 mark, 1 mark)

5. Kyle tests himself after each week of study. Each week he studies for a different number of hours and this affects the score he achieves.

Draw a line of best fit for his data on the graph below.



Based on the data, if Kyle studied for 8 hours in the next week, what would his score likely be?

.....

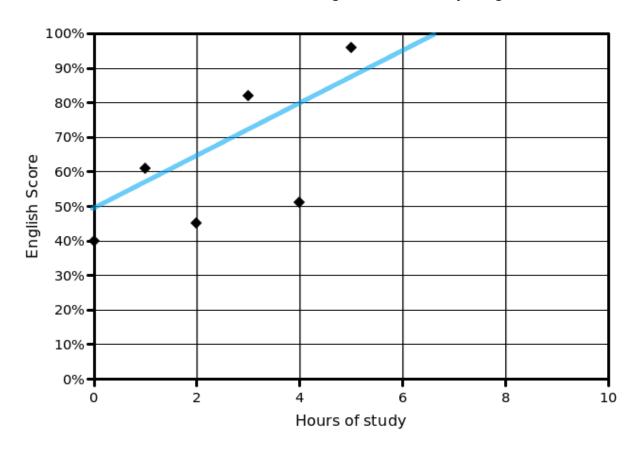
.....

Score = .....

(1 mark, 2 marks)

6.	Kyle tests himself after each week of study for his English revision too
	He looks at his data and draws a line of best fit.
	He savs.

"If I studied for 7 hours I would get 100% on my English Test."



State two reasons why his statement is inaccurate.

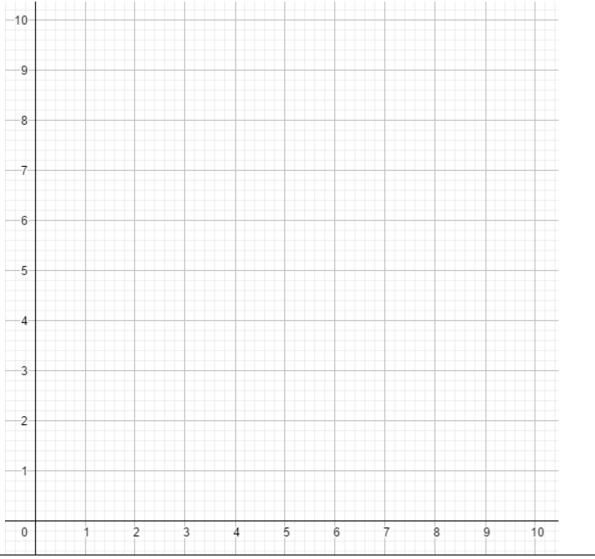
Reason.	 
Reason:	 

(2 marks)

7. Data is collected on adults and children taking the bus on several days.

Plot the following data on the graph below and add a line of best fit, labelling axis.

Adults	Children
taking the	taking the
bus	bus
4	5
7	8
1	3
8	1
2	4
9	9
3	4
5	6
6	6



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Circle the two outliers on your plot.
If the two outliers were removed, what would happen to:
The line of best fit:
The correlation of the data:
(3 marks, 1 mark, 2 marks)