Name: _____

GCSE (1 - 9)

Scatter Graphs

Instructions

- Use black ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must show all your working out.

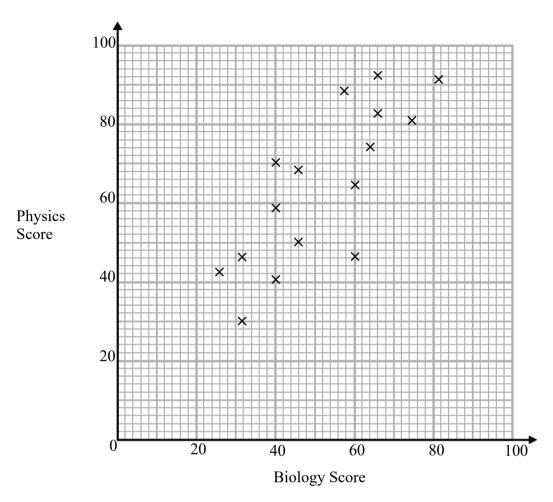
Information

- The marks for each Question are shown in brackets
- use this as a guide as to how much time to spend on each Question.

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1 The scatter graph shows the scores of 16 students on their Biology and Physics tests.



(a) What type of correlation does the scatter graph show?

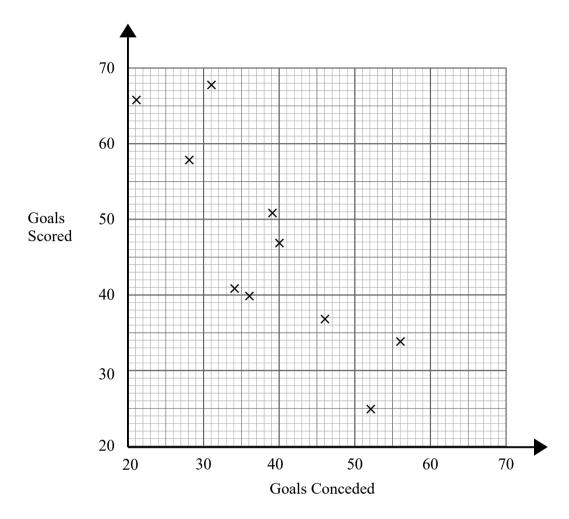
	(1)

(b) Another students scored 52 marks on their Biology test. Estimate the Physics score for this student.

			 (2)

(Total for question 1 is 3 marks)

The information is shown on the scatter graph.



(a)	What type	of correla	ation does	s the scatter	granh	show?
laı	what type	OI COITER	111011 (106)	s the scatter	grabn	SHOW

(1)

(b) Another team have scored 44 goals.

Estimate the number of goals this team has conceded.

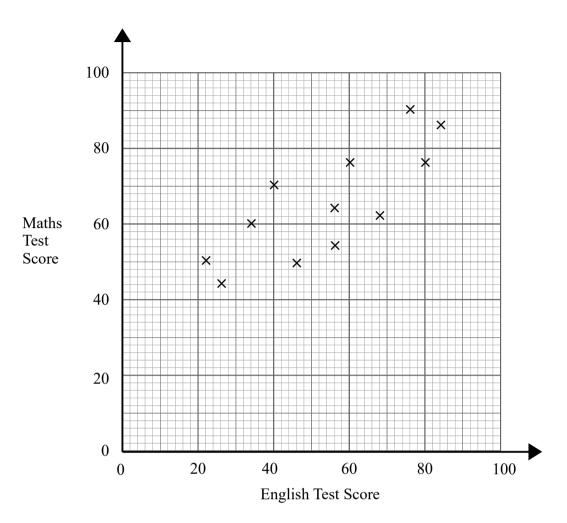
(2)

(Total for question 2 is 3 marks)

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(Total for question 3 is 4 marks)

4 The scatter graph shows information about the test scores of some students in Maths and English.



The table shows the test scores of two more students.

Maths Test Score	70	84
English Test Score	64	68

(a) Show this information on the scatter graph.

(1)

Another student scored 56 on the maths test.

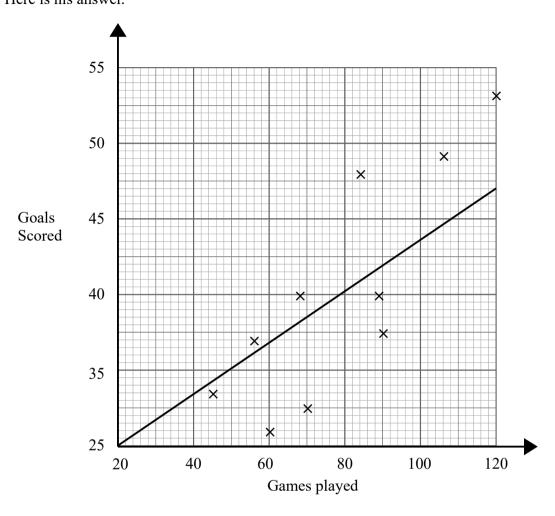
(b) Use the scatter graph to estimate this student's score on the English test.

(2)

(Total for question 4 is 3 marks)

Wayne has data about the number of goals 10 football players had scored and the number of games they had played.

He was asked to display the data on a scatter graph. Here is his answer.



Wayne has plotted the points accurately.

Write down two things that are wrong with his answer.

1	
2	
	(Total for question 5 is 2 marks)

6 The scatter graph shows information about the test scores of some students in Maths and the number of hours they spend watching TV a day. 100 80 X Maths 60 Test Score 40 20 0 2 4 8 6 0 10 Hours of TV Watching (a) What type of correlation does the scatter graph show? (1) Billy says, "If I reduce the amount of TV I watch my Maths test score will improve." (b) Comment on what Billy says. (1) (Total for question 6 is 3 marks)

