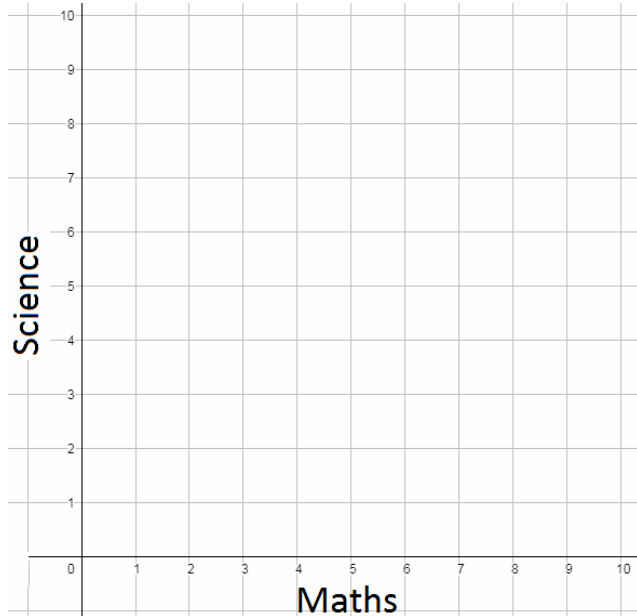


Scatter Graphs – www.m4ths.com

(1) The table below shows the scores some students scored in their maths test and their science test.

Maths	4	6	3	7	8	5	9
Science	5	4	2	8	1	4	3

Plot the points on the grid below. Mark them with x.



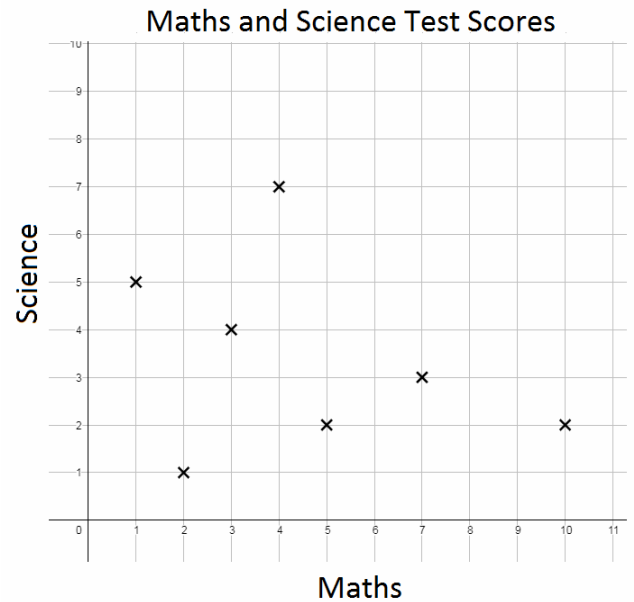
(2) The table below shows the scores some students scored in their English test and their history test.

English	12	8	15	13	10	16	9
History	10	12	10	12	13	9	4

Plot the points on the grid below. Mark them with x.



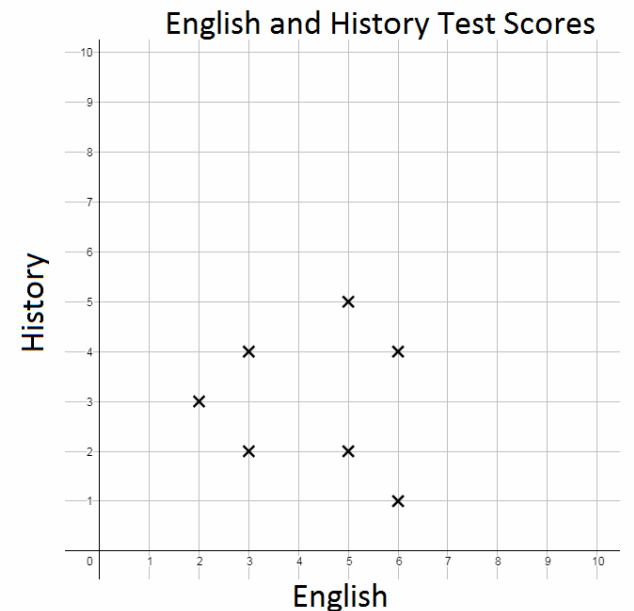
(3) The scatter graph below shows the Maths and Science test scores of 7 different students.



Complete the table below with the scores for each student.

Maths							
Science							

(4) The scatter graph below shows the English and History test scores of 7 different students.

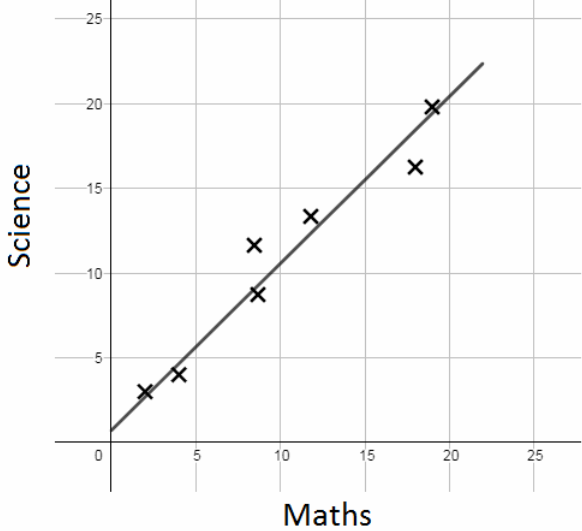


Complete the table below with the scores for each student.

English							
History							

(5) The scatter graph below shows the Maths and Science test scores of 6 different students. The graph has a line of best fit.

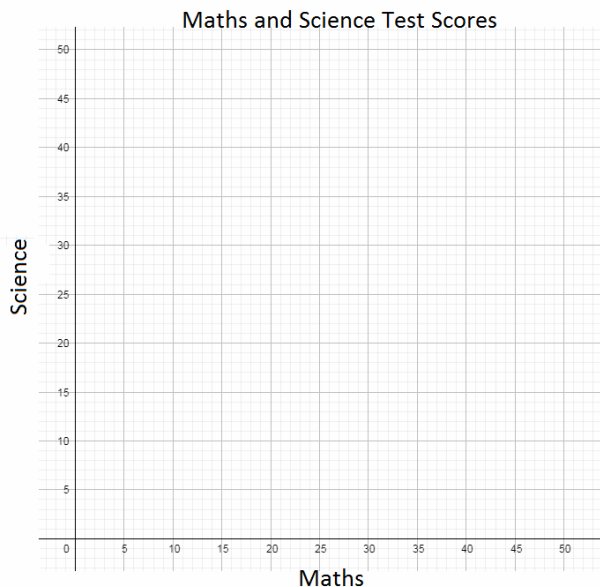
Maths and Science Test Scores



- (a) Does the graph show positive, negative or no correlation?
- (b) Use the line of best fit to ESTIMATE the Science score of a student who scored 15 in the Maths test.
- (c) Use the line of best fit to ESTIMATE the Maths score of a student who scored 10 in the Science test.
- (6) The table below shows the scores some students scored in their maths test and their science test.

Maths	20	10	45	30	25	50	25
Science	25	5	5	20	25	40	30

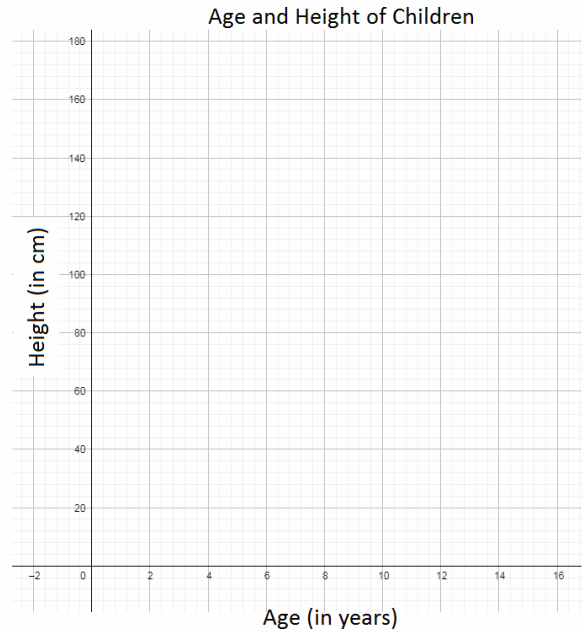
- (a) Plot the scores on the grid below.



- (b) Draw a line of best fit on your scatter graph.
- (c) Circle the outlier.
- (d) Give an explanation for why it could be an outlier.
- (7) The table below shows the age and height of some students.

Age	8	11	16	12	14	6	2
Height	80	132	165	145	152	110	82

- (a). Plot the ages and heights on the scatter graph below.



- (b) State the type of correlation between age and height using the graph.
- (c) Draw a line of best fit on the scatter graph.
- (d) Use the line of best fit to ESTIMATE the height of a child who was 7 years old.
- (e) Use the line of best fit to ESTIMATE the age of a child who was 120cm tall.
- (f) Is there an outlier? If so, which point is it?

- (8) The diagram below shows 5 scatter graphs. Match the type of correlation given with each graph.

