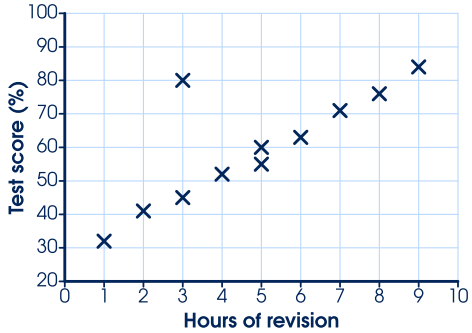
GCSE FOUNDATION · REVISION MAT 1

Scatter graphs

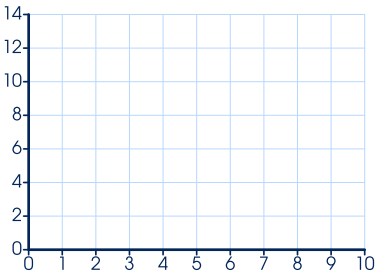
1 The scatter graph shows test score against hours of revision.



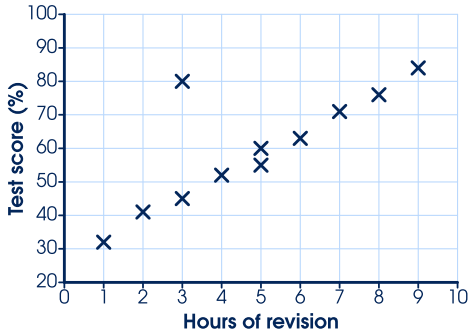
Describe the correlation.

2 Plot these points on the scatter graph.

x	2	4	6	8
y	5	8	9	13

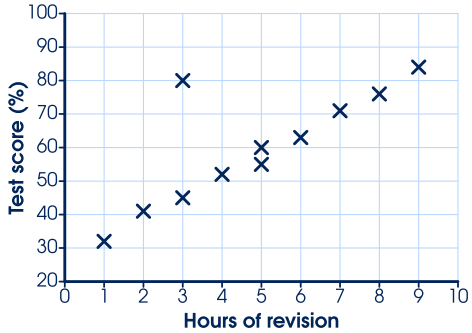


3 The scatter graph shows some data.



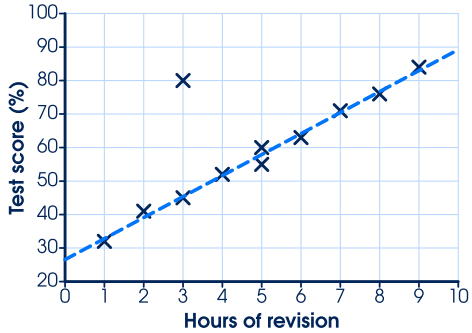
Explain what the graph shows about the relationship between the two variables.

4 The scatter graph shows some data.



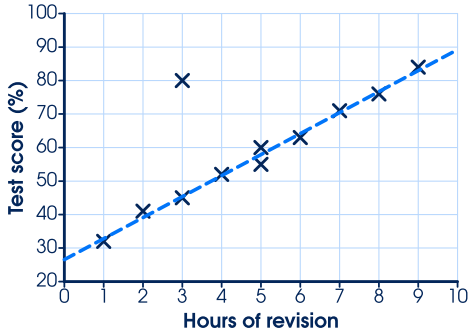
Show that the point (3, 80) is an outlier.

5 A line of best fit has been drawn.



Use the line to estimate test score when hours of revision is 3.5.

6 A line of best fit has been drawn.

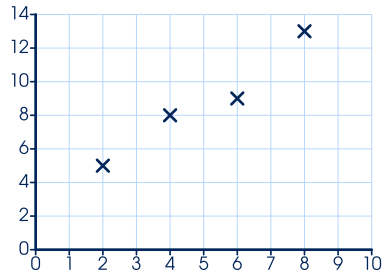


Explain why it would not be sensible to use the line to estimate test score when hours of revision is 15.

1 **Positive correlation**

As hours of revision increases, test score increases.

2



3 There is **positive correlation**: higher hours of revision tends to go with higher test score.

ANSWERS · REVISION MAT 1

Scatter graphs

4 It does not fit the pattern of the other points.

Outlier ✓

5 Read up from 3.5 to the line and across.

About **48.5** (accept close readings)

6 15 is outside the range of the data.

The pattern may not continue, so the estimate would be **unreliable** (extrapolation).