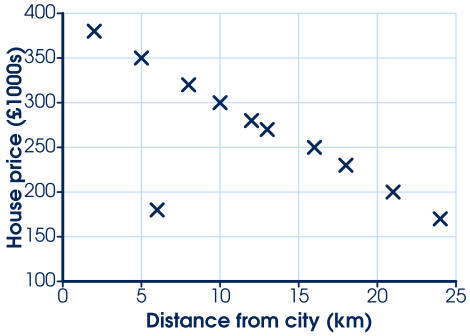
GCSE FOUNDATION · REVISION MAT 5

Scatter graphs

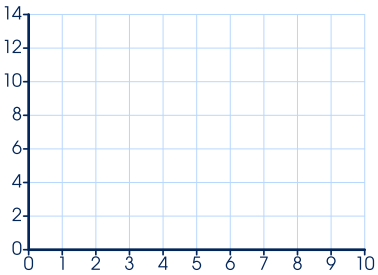
1 The scatter graph shows house price against distance from city.



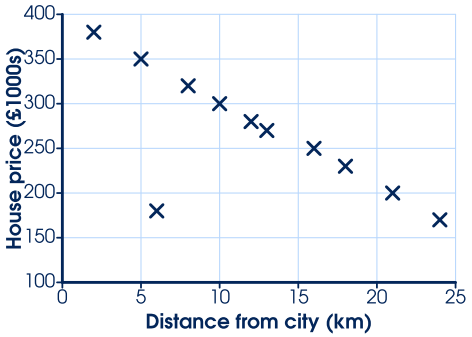
Describe the correlation.

2 Plot these points on the scatter graph.

x	1	3	5	7
y	3	4	8	9

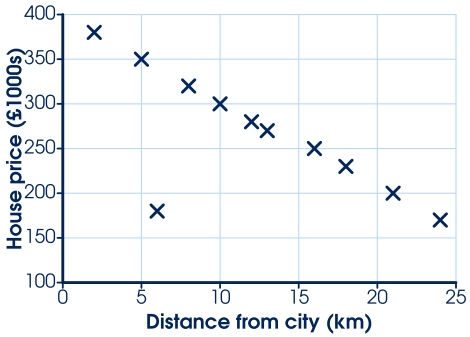


3 The scatter graph shows some data.



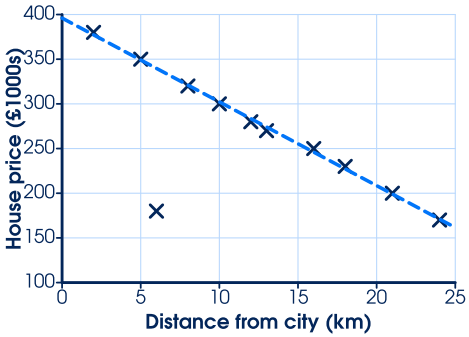
Explain what the graph shows about the relationship between the two variables.

4 The scatter graph shows some data.



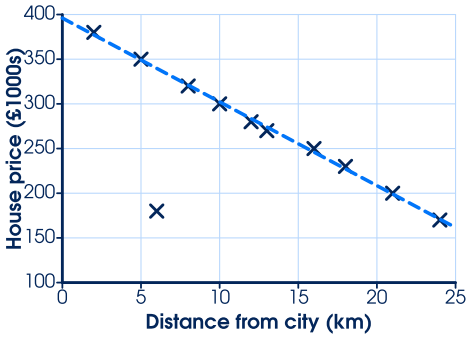
Show that the point (6, 180) is an outlier.

5 A line of best fit has been drawn.



Use the line to estimate house price when distance from city is 15.

6 A line of best fit has been drawn.



Explain why it would not be sensible to use the line to estimate house price when distance from city is 35.

Mr&Mrs MATHS

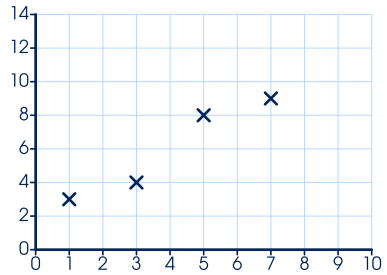
ANSWERS · REVISION MAT 5

Scatter graphs

1 **Negative correlation**

As distance from city increases, house price decreases.

2



3 There is **negative correlation**: higher distance from city tends to go with lower house price.

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

Outlier ✓

5 Read up from 15 to the line and across.

About **255.3** (accept close readings)

6 35 is outside the range of the data.

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