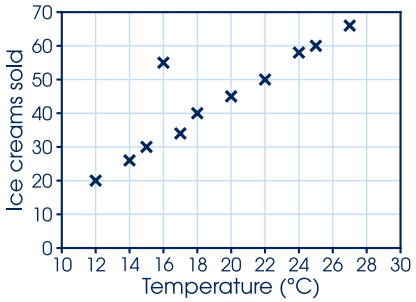
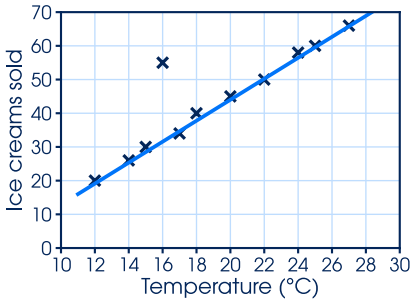
GCSE HIGHER · REVISION MAT 2

Scatter graphs and correlation

1 Describe the correlation.

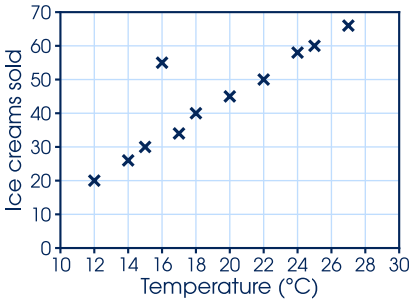


2 Use the line of best fit to estimate the sales at 21 °C.



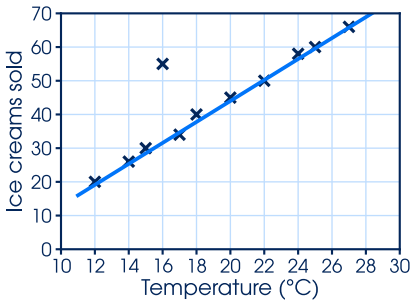
3 Explain why estimating within the range of the data (interpolation) is more reliable than outside it.

4 Identify the outlier and suggest a reason for it.

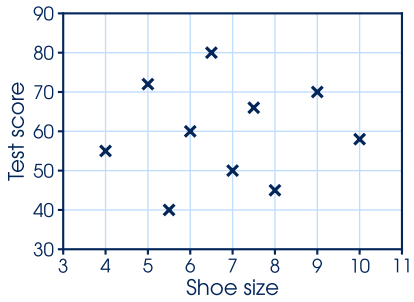


5 Explain why a line of best fit does not have to pass through the origin.

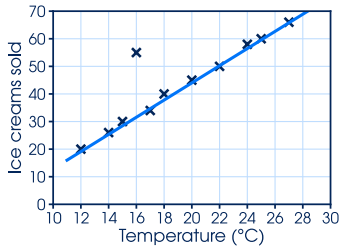
6 Estimate the temperature when 36 ice creams are sold.



7 Describe the correlation between shoe size and test score.



8 Is it sensible to use the line to predict sales at 40 °C? Explain.



Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Scatter graphs and correlation

1 Positive correlation

2 About 48

3 The pattern is known inside the data range but may change outside it.

4 (16, 55): perhaps a special event or holiday on a cooler day

5 It follows the trend of the data, which need not start at (0, 0).

6 About 18 °C

7 No correlation

8 No: 40 °C is outside the data, and sales may not keep rising.