

7. Alys bought an ice cream van at the end of December, to start selling ice cream from the 1st January.



She records her monthly sales correct to the nearest £10 during the first seven months of the year.

Month	January	February	March	April	May	June	July
Sales (£)	140	240	220	360	380	420	600

The time series graph for the sales of ice creams for each month has been plotted on the graph paper opposite.

- (a) Calculate the 4-point moving averages and complete the table below. [3]

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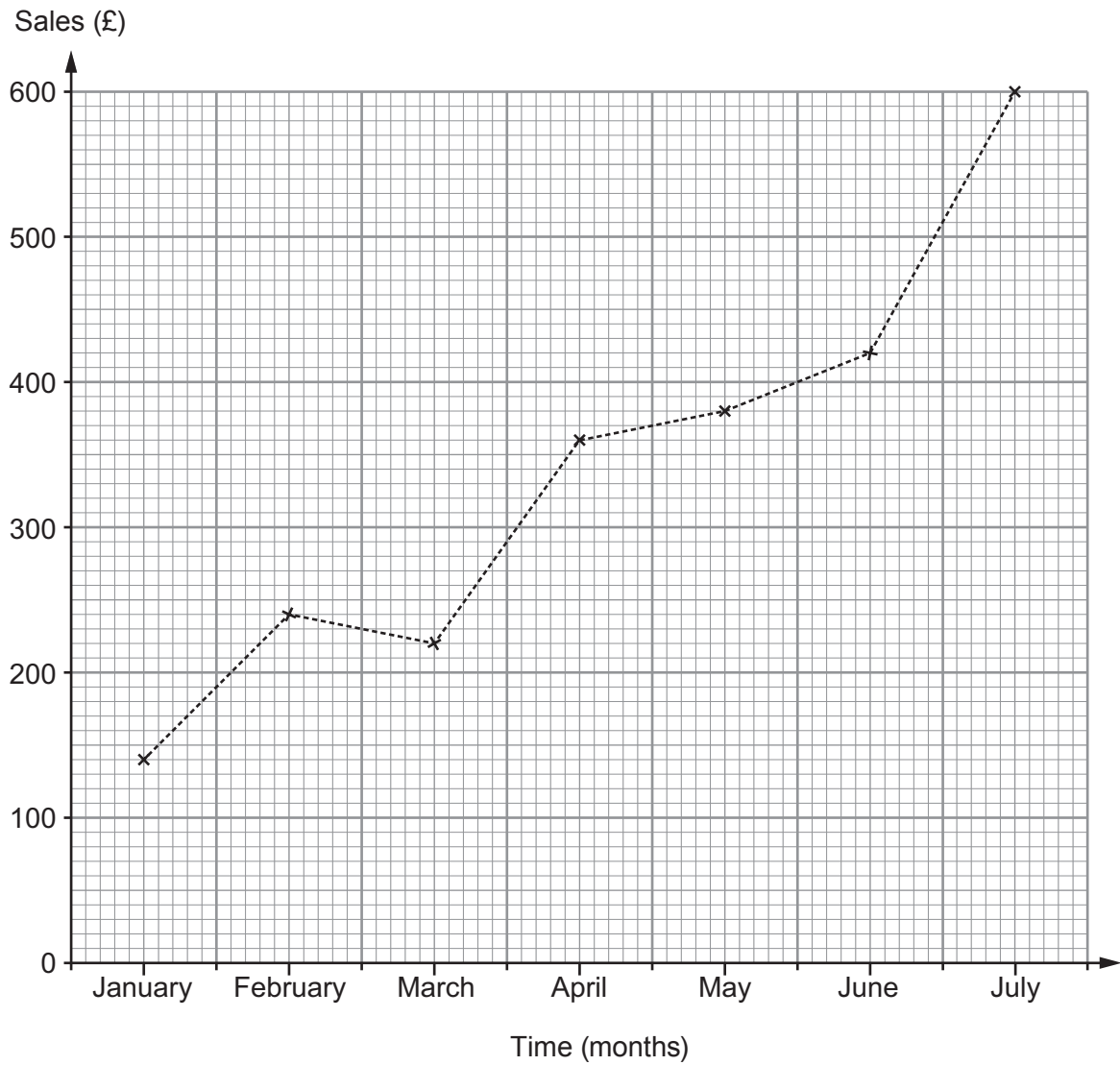
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4-point period	January to April	February to May	March to June	April to July
4-point moving average (£)				

- (b) On the graph opposite, plot the 4-point moving averages and draw a trend line. [2]



- (c) The scale that Alys has used for the time axis has equal spacing for each month. She now thinks that this may not be correct. Should Alys be worried about the equal spaces between each month on her graph? Tick (✓) a box. You must give a reason for your answer. [1]

Yes No

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- (d) Alys is very pleased to see an upward trend in sales. Do you think this trend will continue? Tick (✓) a box. You must give a reason for your answer. [1]

Yes No

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