



THIRD SPACE
LEARNING

GCSE Exam Questions

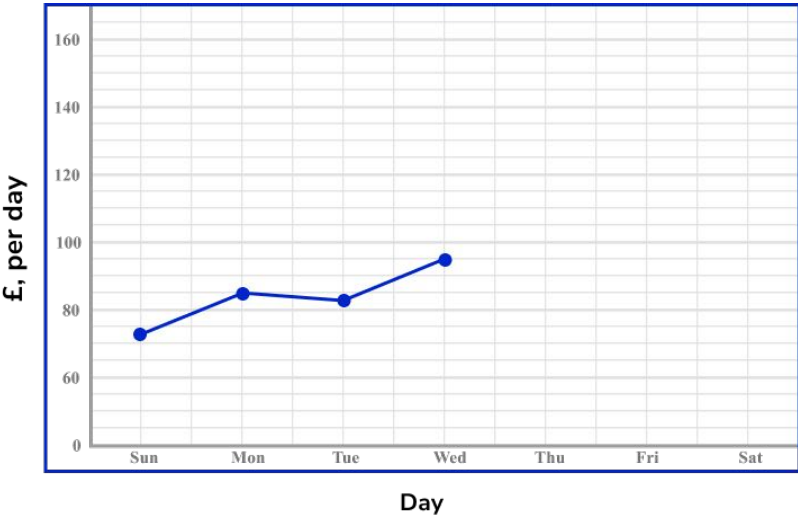
Time Series Graphs | Statistics

GCSE Exam Questions: Time Series Graphs

1) The table shows the amount of money a taxi driver earned during one week.

Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat
£, per day	73	86	82	95	92	115	140

(a) Complete the time series graph for Thursday to Saturday.



(2)

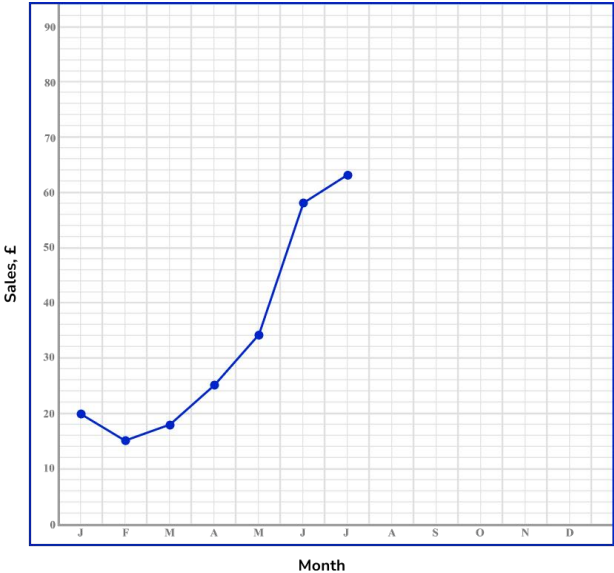
(b) Describe the trend of the data.

(1)
(3 marks)

GCSE Exam Questions: Time Series Graphs

2) The table shows the average daily sales of an ice cream van over the period of a year.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Sales, £	20	15	17	25	34	58	63	79	62	45	32	



- (a) Complete the time series graph for the months August to November.

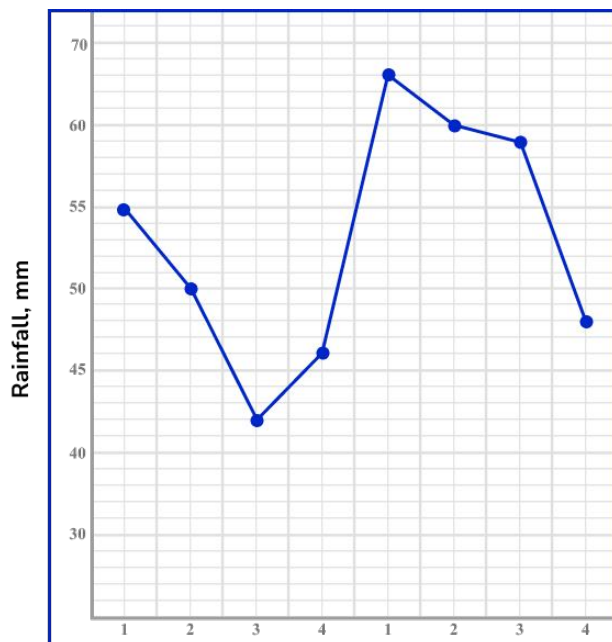
(2)
- (b) Use the trend of the data between August and November to predict the value for December.

(1)

(3 marks)

GCSE Exam Questions: Time Series Graphs

- 3) Below is a time series graph showing the amount of rainfall.
State two mistakes that have been made with the time series graph.

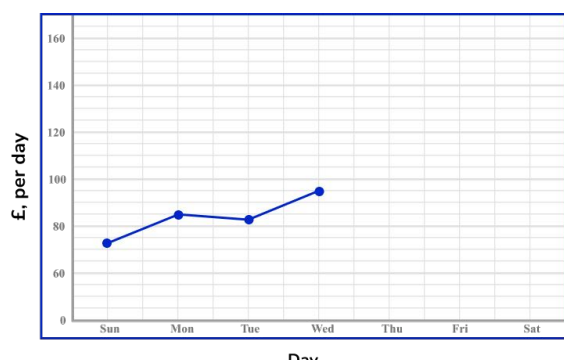
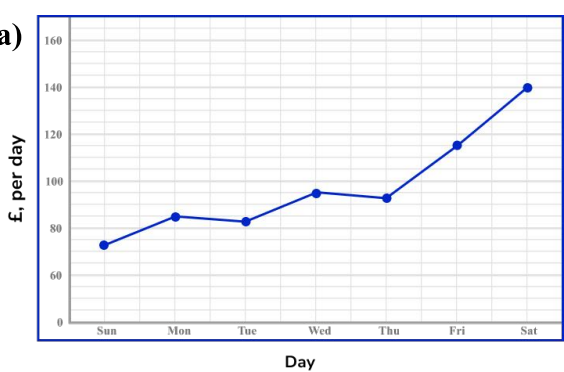
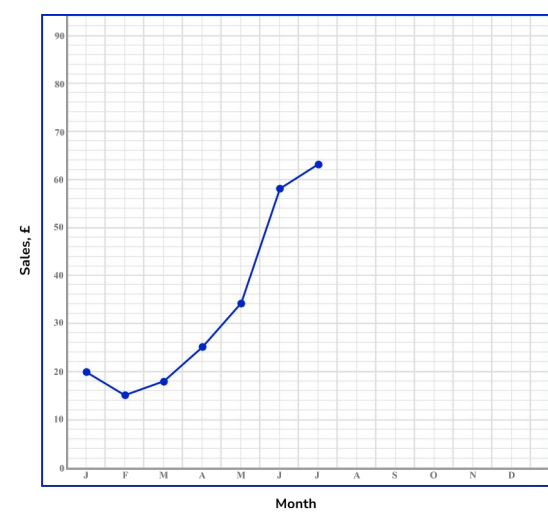
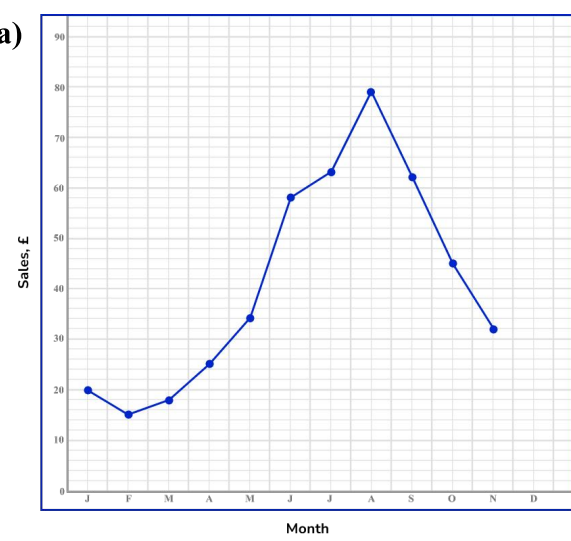


1. _____

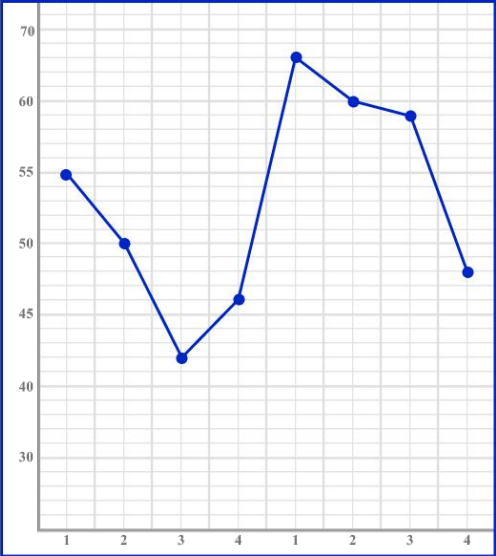
2. _____

(2 marks)

GCSE Exam Questions: Time Series Graphs Answers

	Question	Answer	Marks																											
1)	<p>The table shows the amount of money a taxi driver earned during one week.</p> <table border="1"><thead><tr><th>Day</th><th>Sun</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th><th>Sat</th></tr></thead><tbody><tr><td>£, per day</td><td>73</td><td>86</td><td>82</td><td>95</td><td>92</td><td>115</td><td>140</td></tr></tbody></table>	Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat	£, per day	73	86	82	95	92	115	140	<p>(a)</p> 	<p>(a)</p>  <p>Points plotted correctly Points joined with straight lines</p>	<p>(1) (1)</p>										
Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat																							
£, per day	73	86	82	95	92	115	140																							
(b)	Describe the trend of the data.	(b) Increasing	(1)																											
2)	<p>The table shows the average daily sales of an ice cream van over the period of a year.</p> <table border="1"><thead><tr><th>Month</th><th>J</th><th>F</th><th>M</th><th>A</th><th>M</th><th>J</th><th>J</th><th>A</th><th>S</th><th>O</th><th>N</th><th>D</th></tr></thead><tbody><tr><td>Sales, £</td><td>20</td><td>15</td><td>17</td><td>25</td><td>34</td><td>58</td><td>63</td><td>79</td><td>62</td><td>45</td><td>32</td><td></td></tr></tbody></table>	Month	J	F	M	A	M	J	J	A	S	O	N	D	Sales, £	20	15	17	25	34	58	63	79	62	45	32		<p>(a)</p> 	<p>(a)</p>  <p>Points plotted correctly Points joined with straight lines</p>	<p>(1) (1)</p>
Month	J	F	M	A	M	J	J	A	S	O	N	D																		
Sales, £	20	15	17	25	34	58	63	79	62	45	32																			
(b)	Use the trend of the data between August and November to predict the value for December.	(b) Value between 24 and 28	(1)																											

GCSE Exam Questions: Time Series Graphs Answers

	Question	Answer	Marks
3)	<p>Below is a time series graph showing the amount of rainfall.</p> <p>State two mistakes that have been made with the time series graph.</p> 	<p>Scale on the y-axis not correct, gaps not consistent</p> <p>Horizontal axes not labelled, so not clear what the 1, 2, 3, 4 represent</p>	<p>(1)</p> <p>(1)</p>

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

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