Time Series – GCSE Statistics

1. No.14

The table shows the value of UK imports of clothing, in £ million, from the rest of the world between 2015 Quarter 3 and 2017 Quarter 4

Some of the four-point moving averages are also shown.

Year and Quarter	Imports (£ million)	Four-point moving average
2015 Q3	4970	
2015 Q4	4730	
		4625
2016 Q1	4600	
		4675
2016 Q2	4200	
		4725
2016 Q3	5170	
		4762.5
2016 Q4	4930	
		4870
2017 Q1	4750	
		4940
2017 Q2	4630	
2017 Q3	5450	
2017 Q4	5190	

Source: ONS

(a) Complete the table by calculating the last moving average.

[1 mark]

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(b) Comment on the trend in the data.

[1 mark]

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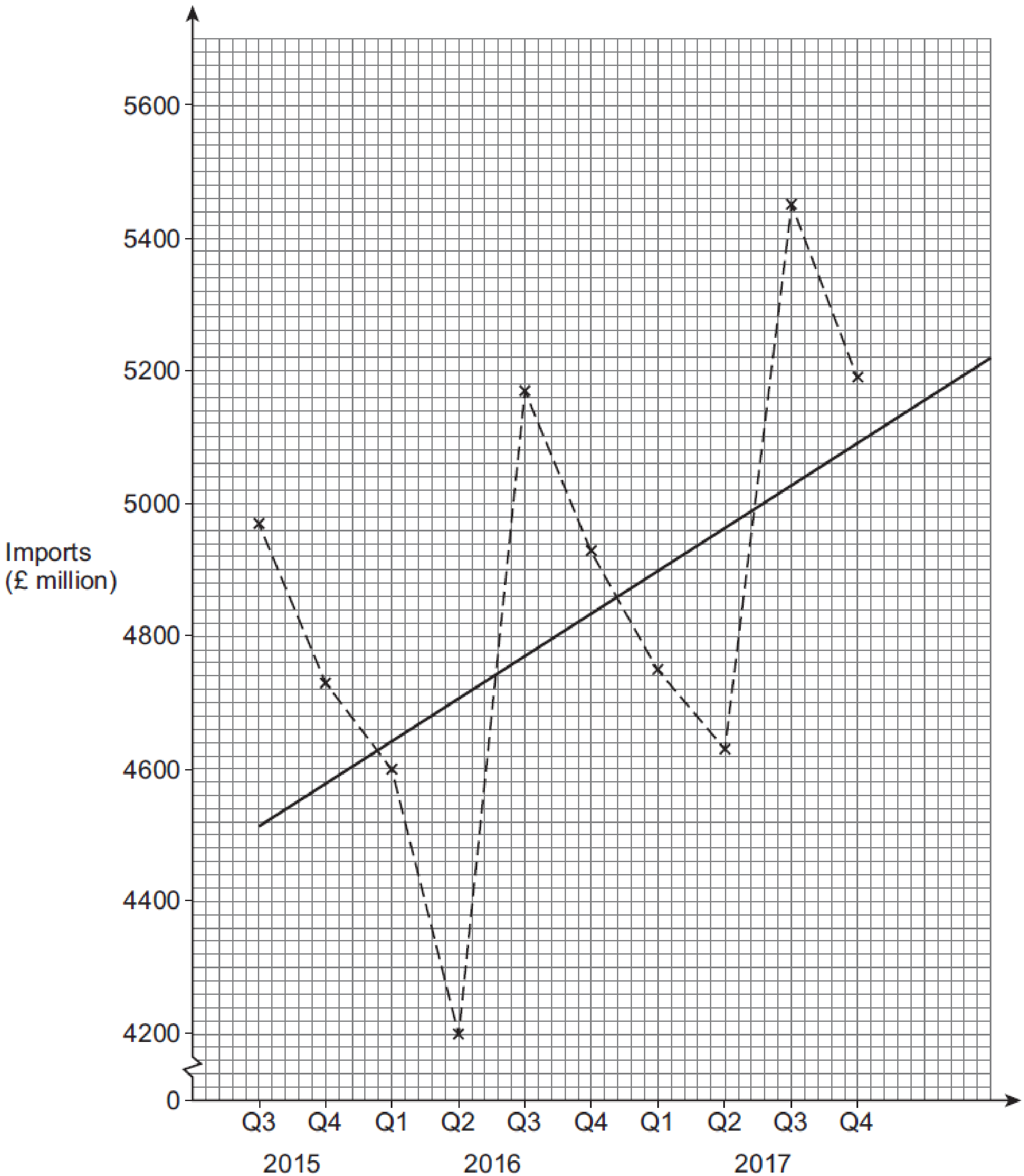
The diagram shows the value of UK clothing imports in each time period.

A trend line has also been drawn.



14 (c) Make **one** comment about the seasonal variation shown in the data.

[1 mark]

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(d) The **seasonal variations** (seasonal effects) for Q1 are shown in the table.

2016 Q1	2017 Q1
−40	−150

(d) (i) By calculating the mean seasonal variation, predict the value of UK imports in 2018 Q1.

You **must** show your working.

[3 marks]

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Answer £ ____________________ million

(d) (ii) Write down **one** assumption that you made in making your prediction in **part (d)(i)**.

[1 mark]

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