

GCSE Mathematics

H

Cumulative Frequency Graphs

Higher | Grades 6-7

Total Marks	Time	Questions
56	56 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

© Teachably. This resource may not be copied or distributed without permission.

Want help from an expert maths tutor?

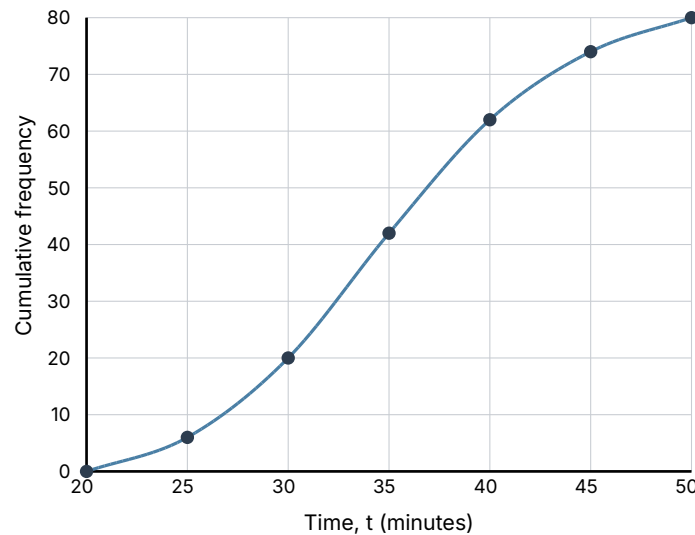
Book a free GCSE Maths consultation with our team at Teachably. Visit teachably.co.uk/book-call to get started.

Edexcel-style questions**Q1** 

Grade 6

Edexcel style

The graph shows the cumulative frequency for the time taken by 80 runners to finish a race. Use the graph to estimate the number of runners who took less than 33 minutes.



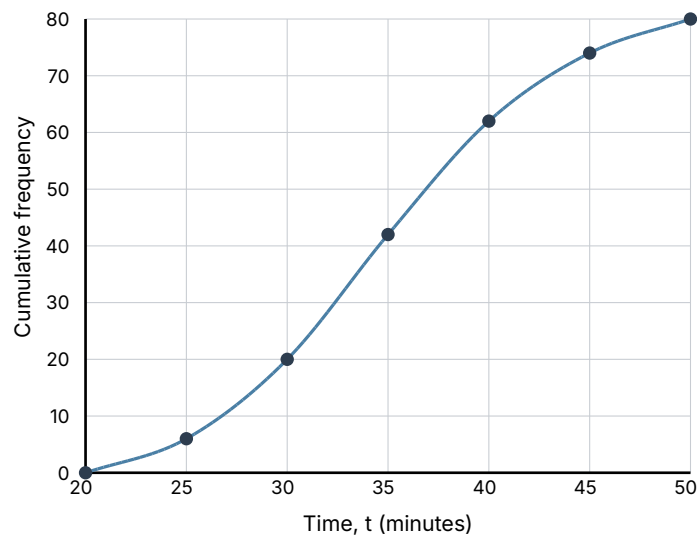
Answer _____

Q2

Grade 6

Edexcel style

The graph shows the cumulative frequency for the time taken by 80 runners to finish a race. Use the graph to estimate the median time.



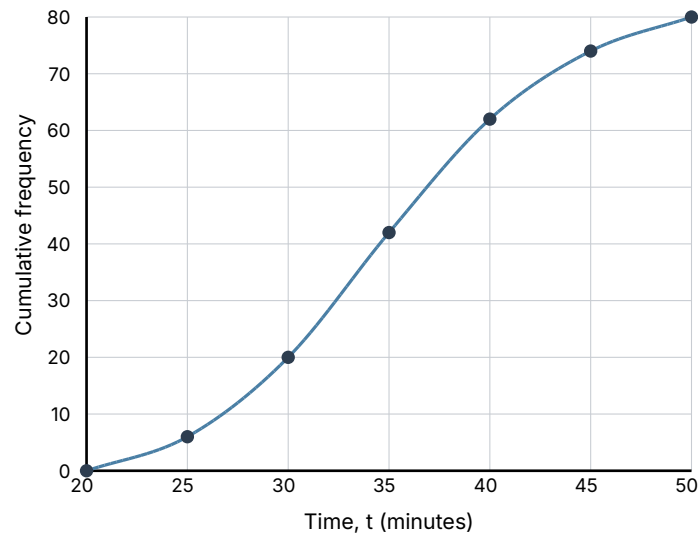
Answer _____

Q3

Grade 6

Edexcel style

The graph shows the cumulative frequency for the time taken by 80 runners to finish a race. Use the graph to estimate the lower quartile.



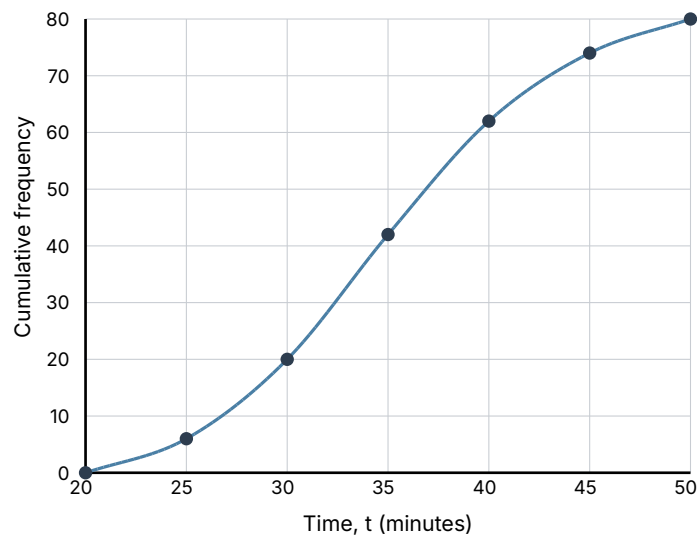
Answer _____

Q4

Grade 7

Edexcel style

The graph shows the cumulative frequency for the time taken by 80 runners to finish a race. Use the graph to estimate the interquartile range.



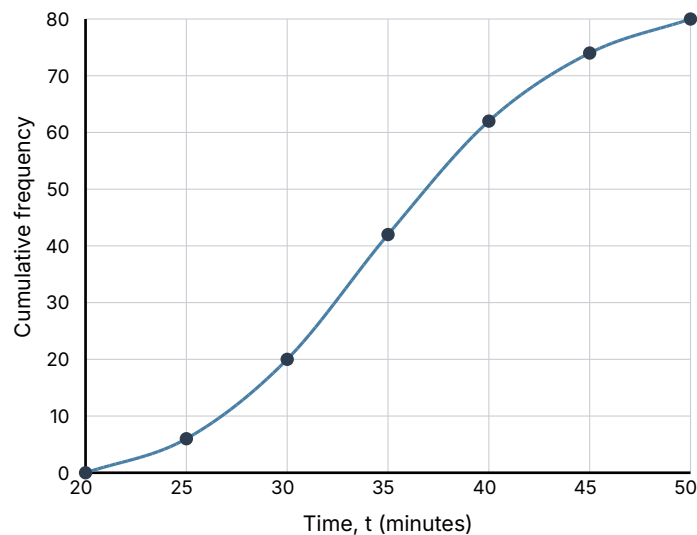
Answer _____

Q5

Grade 7

Edexcel style

The graph shows the cumulative frequency for the time taken by 80 runners to finish a race. Use the graph to estimate the number of runners who took between 33 and 42 minutes.



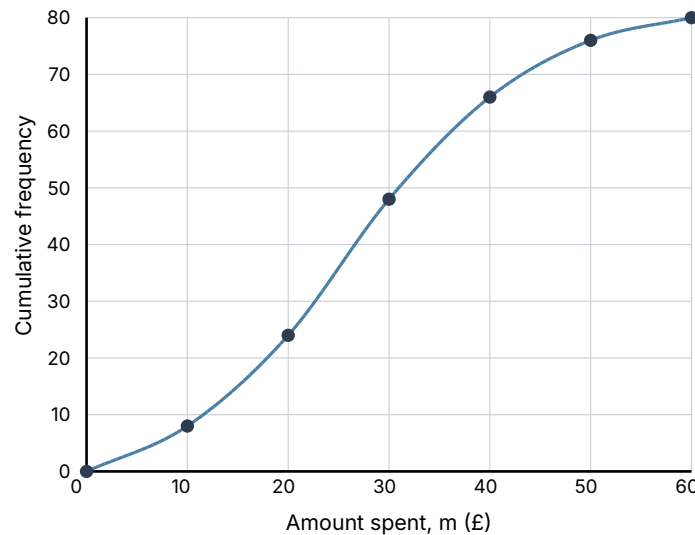
Answer _____

AQA-style questions**Q6** 

Grade 6

AQA style

The graph shows the cumulative frequency for the amount spent by 80 customers in a shop. Use the graph to estimate the number of customers who spent less than £25.



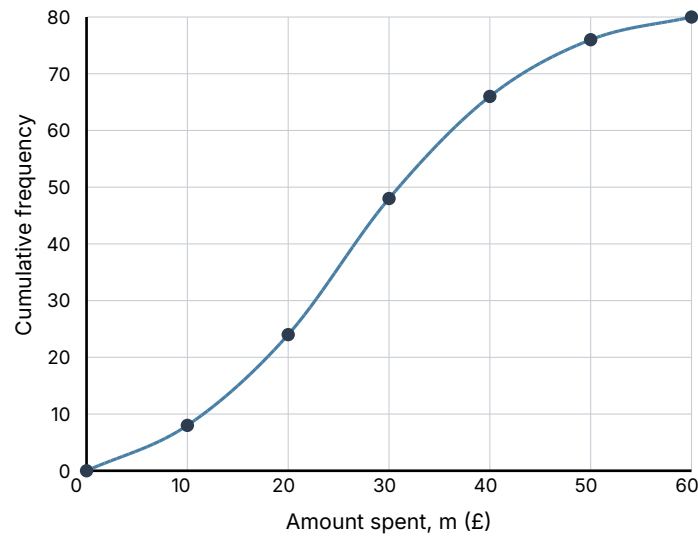
Answer _____

Q7

Grade 6

AQA style

The graph shows the cumulative frequency for the amount spent by 80 customers in a shop. Use the graph to estimate the median amount spent.



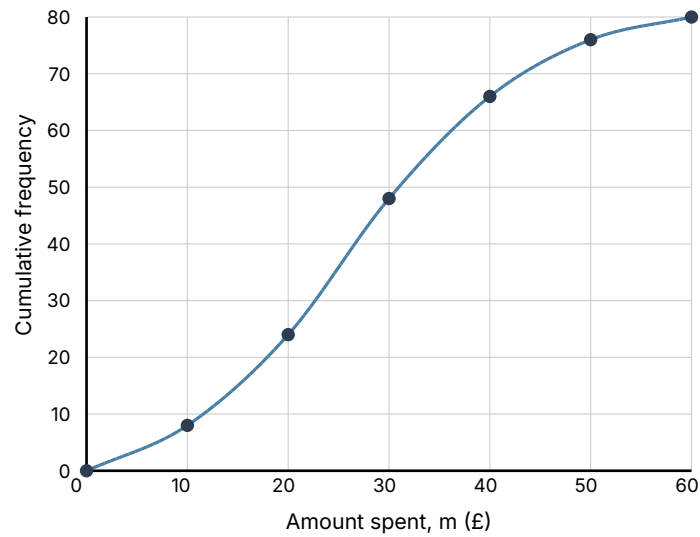
Answer _____

Q8

Grade 6

AQA style

The graph shows the cumulative frequency for the amount spent by 80 customers in a shop. Use the graph to estimate the lower quartile.



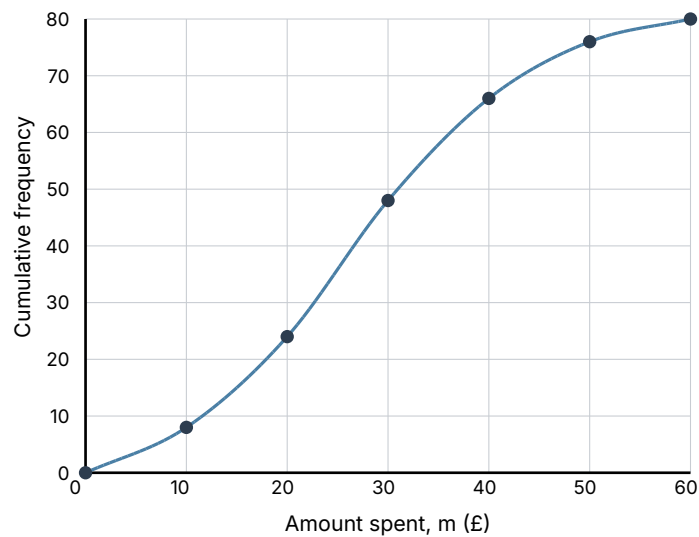
Answer _____

Q9

Grade 7

AQA style

The graph shows the cumulative frequency for the amount spent by 80 customers in a shop. Use the graph to estimate the interquartile range.



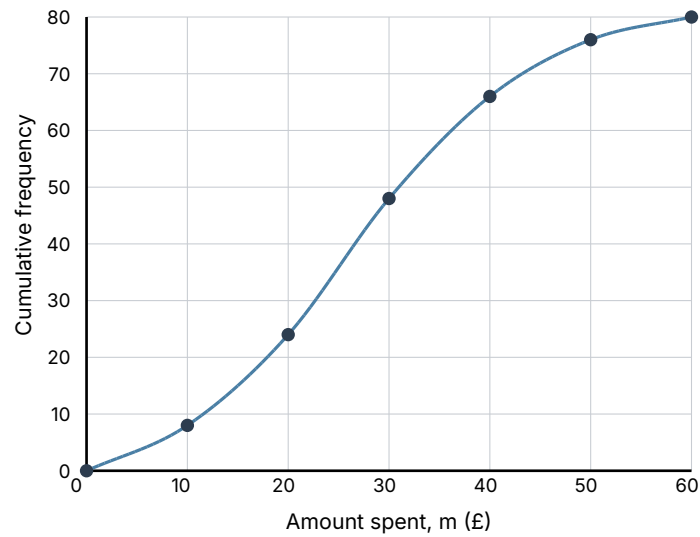
Answer _____

Q10

Grade 7

AQA style

The graph shows the cumulative frequency for the amount spent by 80 customers in a shop. Use the graph to estimate the number of customers who spent between £15 and £35.



Answer _____

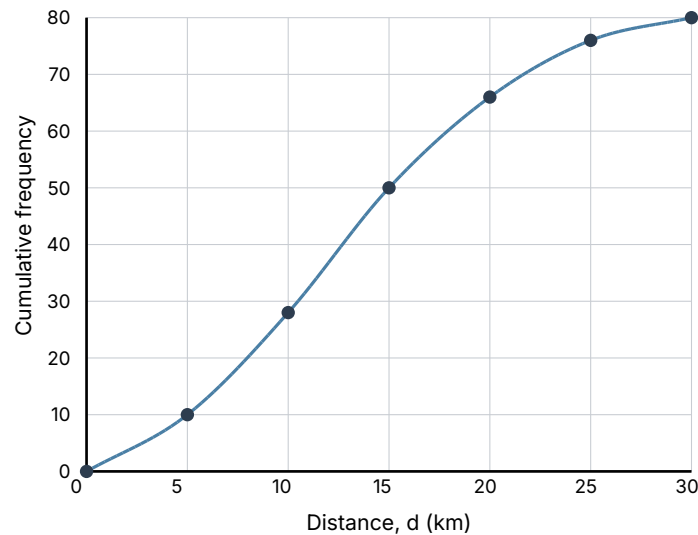
OCR-style questions

Q11 

Grade 6

OCR style

The graph shows the cumulative frequency for the distance travelled to work by 80 employees. Use the graph to estimate the number of employees who travel less than 12 km.



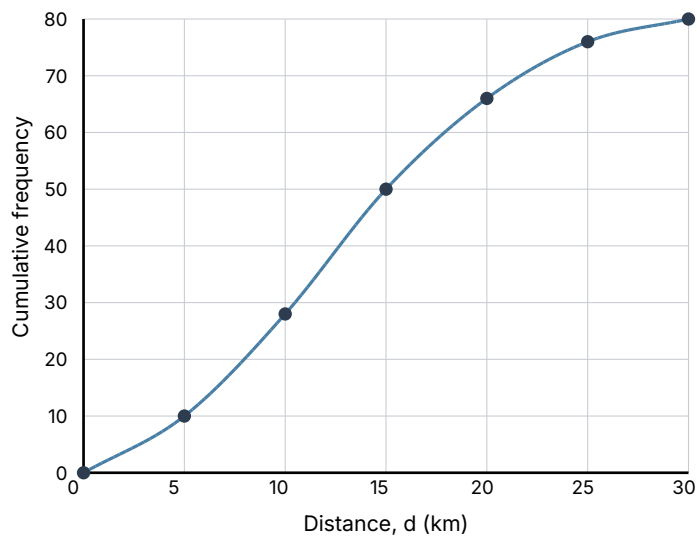
Answer _____

Q12

Grade 6

OCR style

The graph shows the cumulative frequency for the distance travelled to work by 80 employees. Use the graph to estimate the median distance.



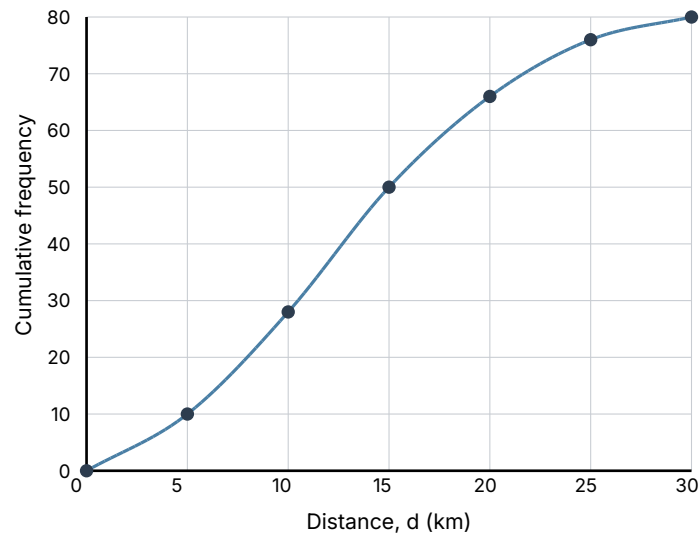
Answer _____

Q13

Grade 6

OCR style

The graph shows the cumulative frequency for the distance travelled to work by 80 employees. Use the graph to estimate the lower quartile.



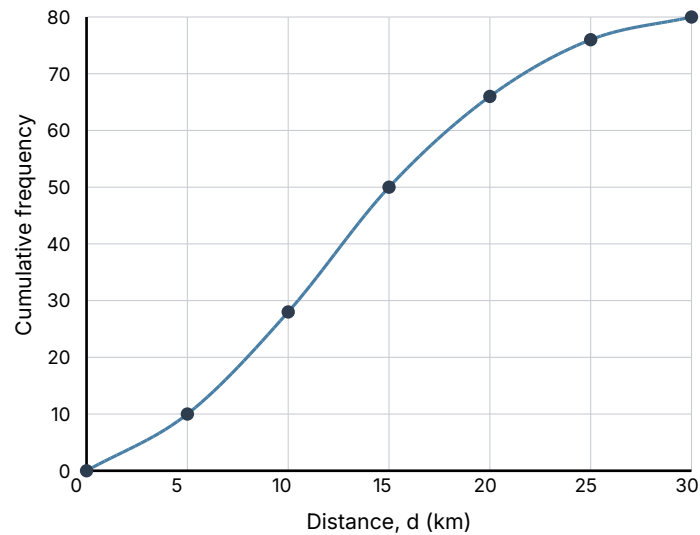
Answer _____

Q14

Grade 7

OCR style

The graph shows the cumulative frequency for the distance travelled to work by 80 employees. Use the graph to estimate the interquartile range.



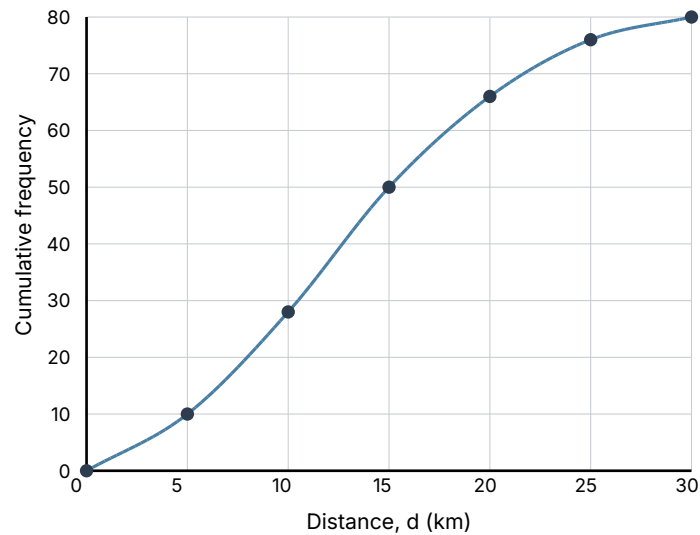
Answer _____

Q15

Grade 7

OCR style

The graph shows the cumulative frequency for the distance travelled to work by 80 employees. Use the graph to estimate the number of employees who travel between 8 and 18 km.



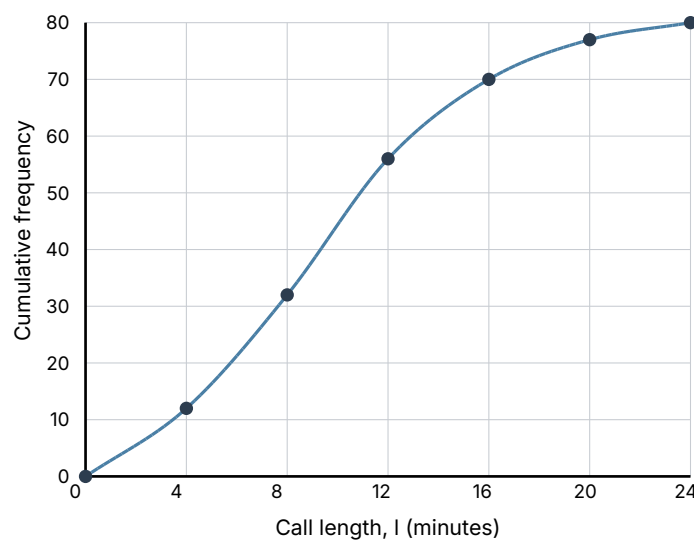
Answer _____

Teachably-style questions**Q16**

Grade 6

Teachably style

The graph shows the cumulative frequency for the length of 80 phone calls. Use the graph to estimate the number of calls that lasted less than 10 minutes.



Answer _____

teachably

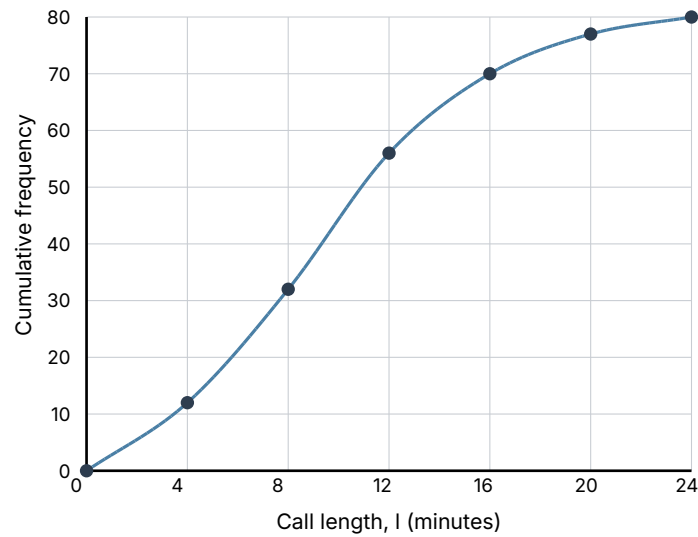
[2 marks]

Q17

Grade 6

Teachably style

The graph shows the cumulative frequency for the length of 80 phone calls. Use the graph to estimate the median call length.



Answer _____

teachably

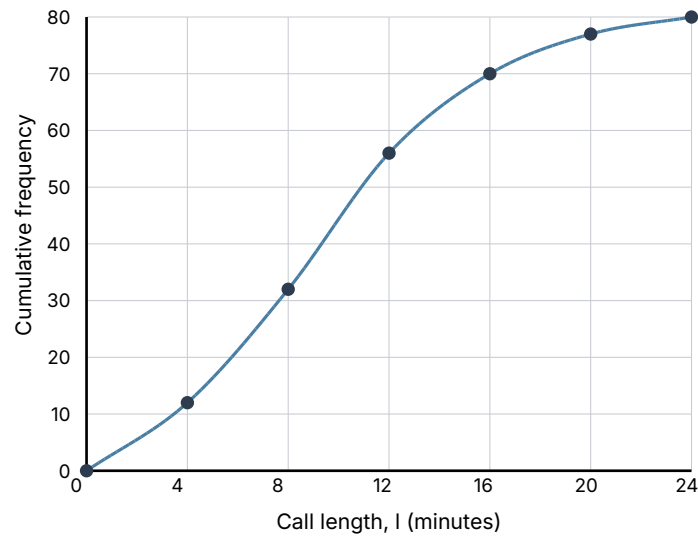
[2 marks]

Q18

Grade 6

Teachably style

The graph shows the cumulative frequency for the length of 80 phone calls. Use the graph to estimate the lower quartile.



Answer _____

teachably

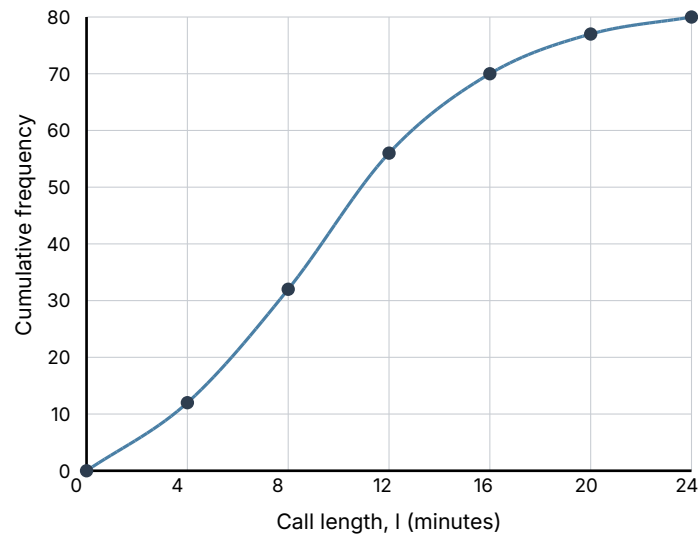
[2 marks]

Q19

Grade 7

Teachably style

The graph shows the cumulative frequency for the length of 80 phone calls. Use the graph to estimate the interquartile range.



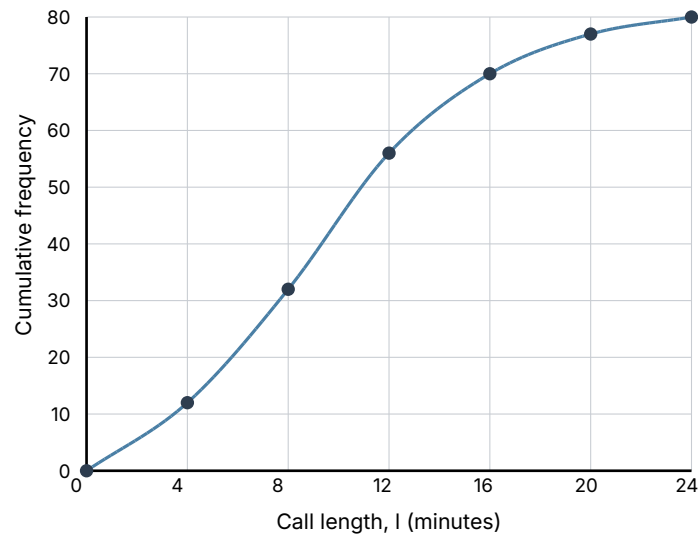
Answer _____

Q20

Grade 7

Teachably style

The graph shows the cumulative frequency for the length of 80 phone calls. Use the graph to estimate the number of calls that lasted between 6 and 14 minutes.



Answer _____

teachably

[4 marks]

END OF PAPER**Want help from an expert maths tutor?**

Book a free GCSE Maths consultation with our team at Teachably. Visit teachably.co.uk/book-call to get started.