

GCSE Mathematics

F

Real-Life Graphs Practice

Foundation, Grade 3-5

Total Marks	Time	Questions
40	40 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.

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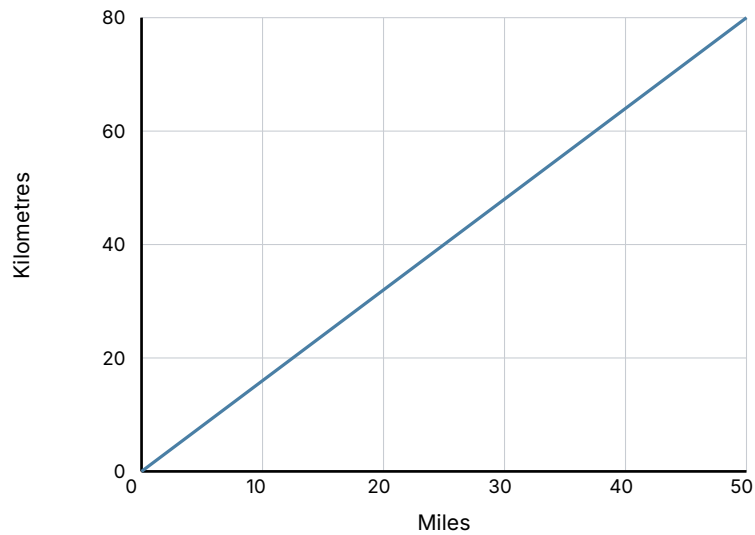
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Edexcel-style questions**Q1** 

Grade 3

Edexcel style

The graph converts miles to kilometres. Use the graph to convert (a) 25 miles to kilometres, and (b) 72 kilometres to miles.



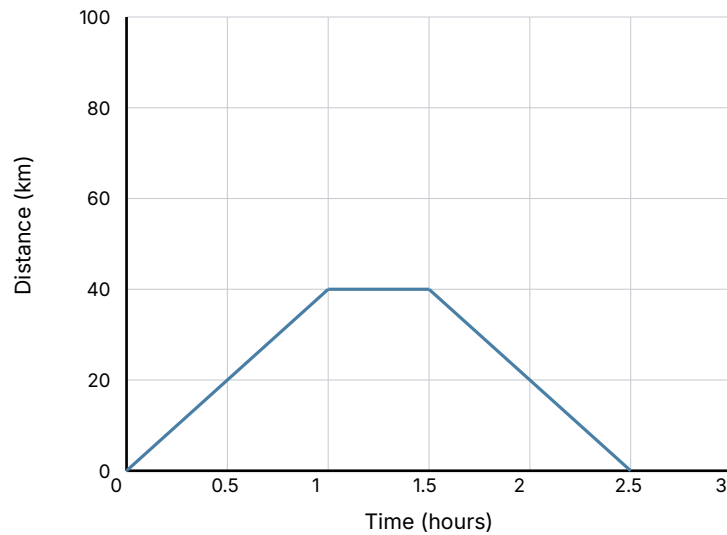
Answer _____

Q2

Grade 3

Edexcel style

The graph shows a journey. (a) How far had the person travelled after 1 hour? (b) For how long did the person stop?



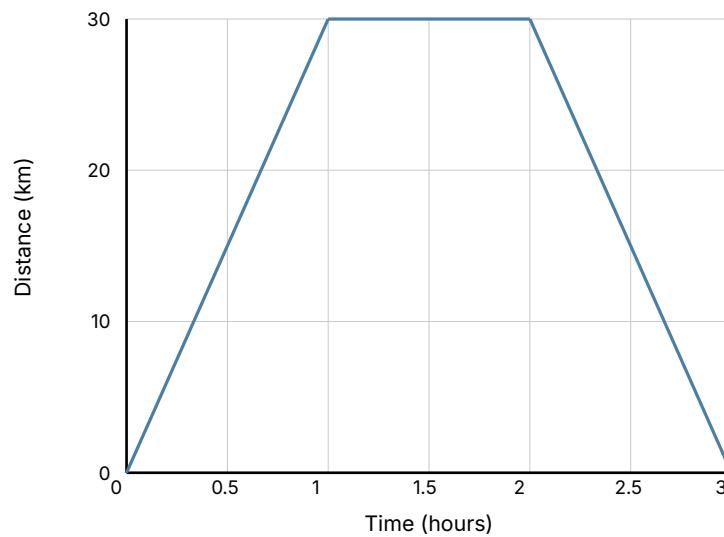
Answer _____

Q3

Grade 4

Edexcel style

The graph shows a journey. Describe what is happening between 1 hour and 2 hours, and between 2 hours and 3 hours.



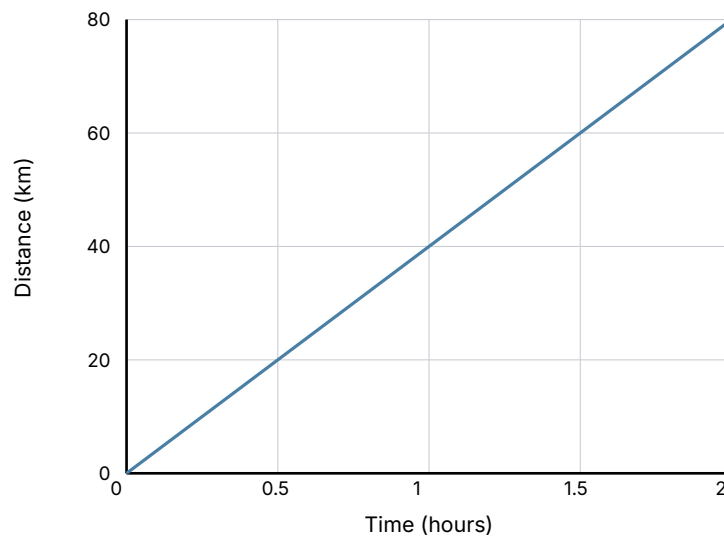
Answer _____

Q4

Grade 5

Edexcel style

The graph shows the first part of a journey. Work out the average speed during this part of the journey.



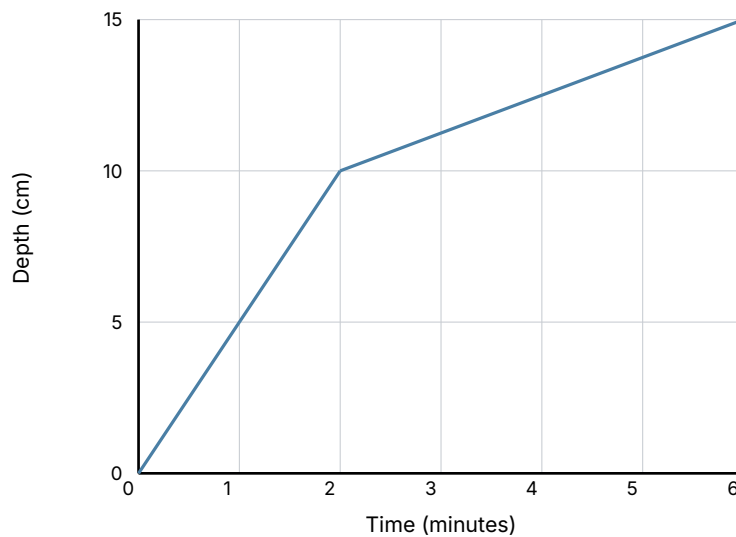
Answer _____

Q5

Grade 5

Edexcel style

The graph shows the depth of water in a container as it is filled at a steady rate, then a slower steady rate. (a) How long did it take to reach a depth of 10 cm? (b) What was the depth after 6 minutes?



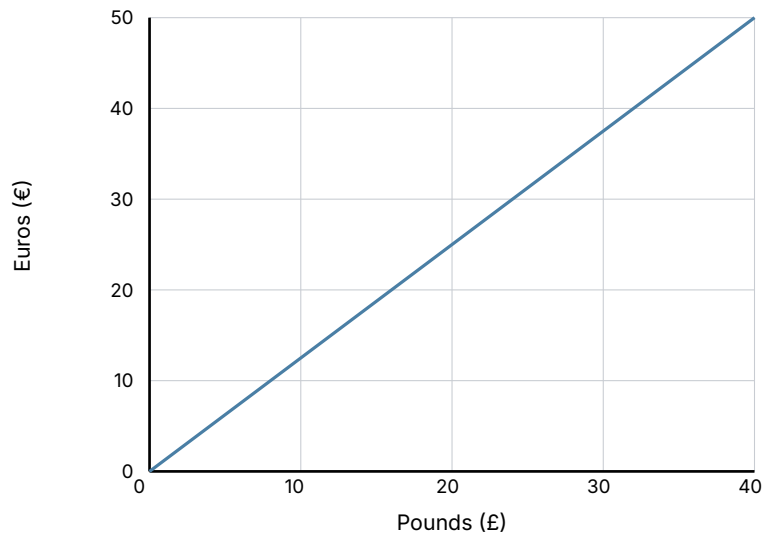
Answer _____

AQA-style questions**Q6**

Grade 3

AQA style

The graph converts pounds (£) to euros (€). Use the graph to convert (a) £24 to euros, and (b) €35 to pounds.



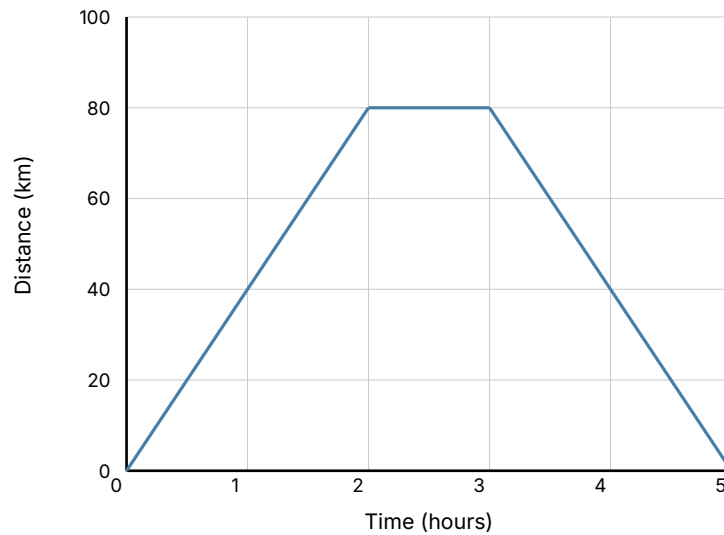
Answer _____

Q7

Grade 3

AQA style

The graph shows a journey. (a) How far had the person travelled after 2 hours? (b) For how long did the person stop?



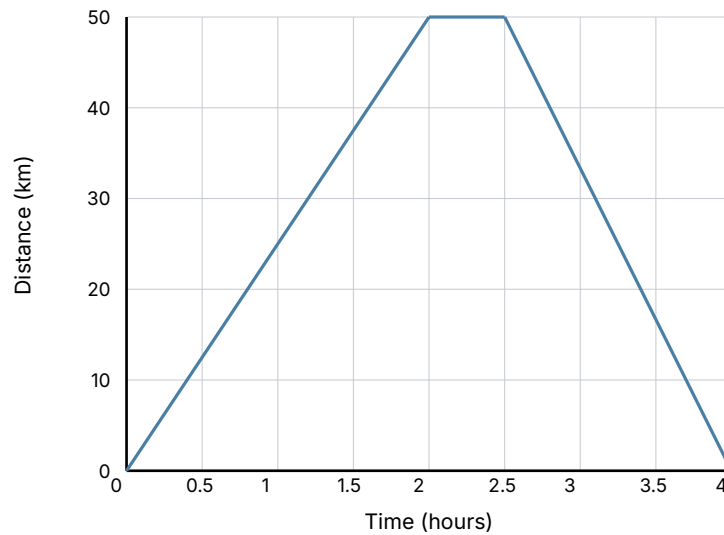
Answer _____

Q8

Grade 4

AQA style

The graph shows a journey. Describe what is happening between 2 hours and 2.5 hours, and between 2.5 hours and 4 hours.



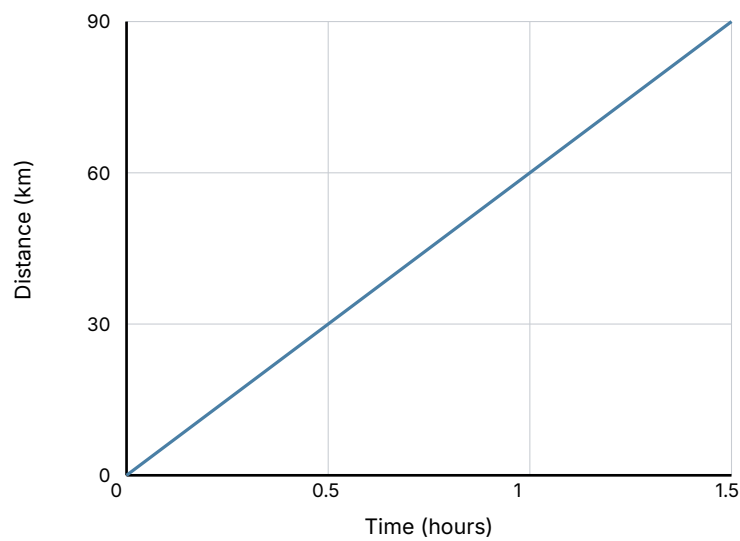
Answer _____

Q9

Grade 5

AQA style

The graph shows the first part of a journey. Work out the average speed during this part of the journey.



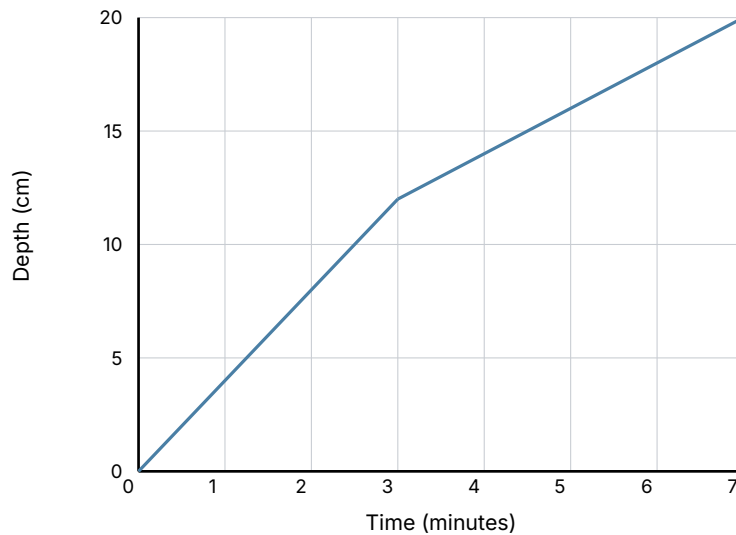
Answer _____

Q10

Grade 5

AQA style

The graph shows the depth of water in a container as it is filled at a steady rate, then a slower steady rate. (a) How long did it take to reach a depth of 12 cm? (b) What was the depth after 7 minutes?



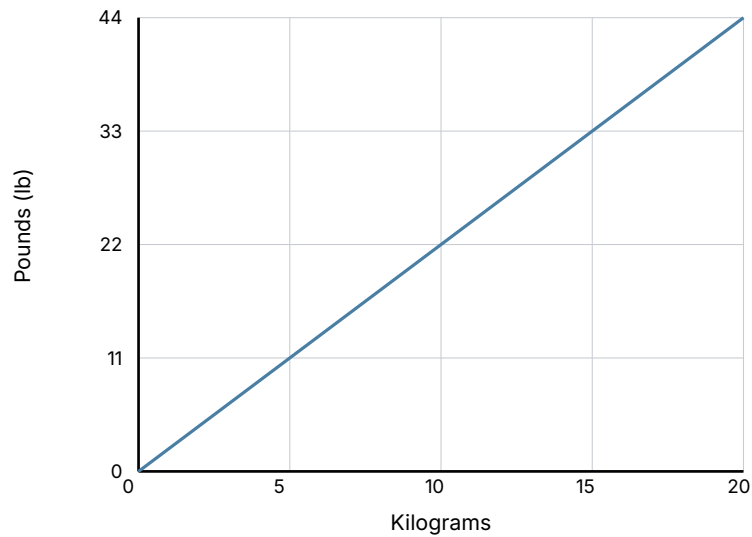
Answer _____

OCR-style questions**Q11** 

Grade 3

OCR style

The graph converts kilograms to pounds (lb). Use the graph to convert (a) 15 kg to pounds, and (b) 22 lb to kilograms.



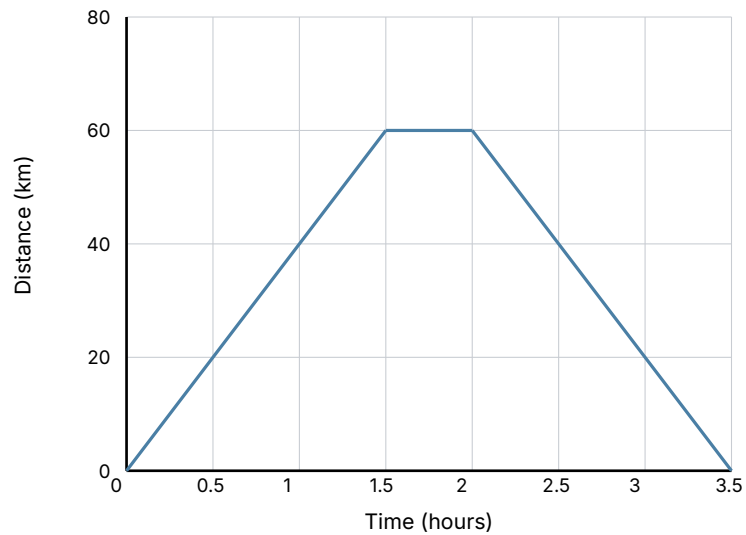
Answer _____

Q12

Grade 3

OCR style

The graph shows a journey. (a) How far had the person travelled after 1.5 hours? (b) For how long did the person stop?



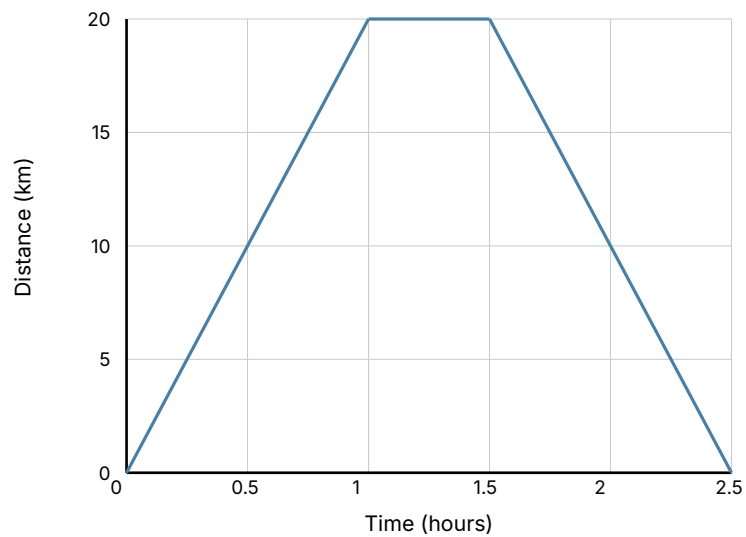
Answer _____

Q13

Grade 4

OCR style

The graph shows a journey. Describe what is happening between 1 hour and 1.5 hours, and between 1.5 hours and 2.5 hours.



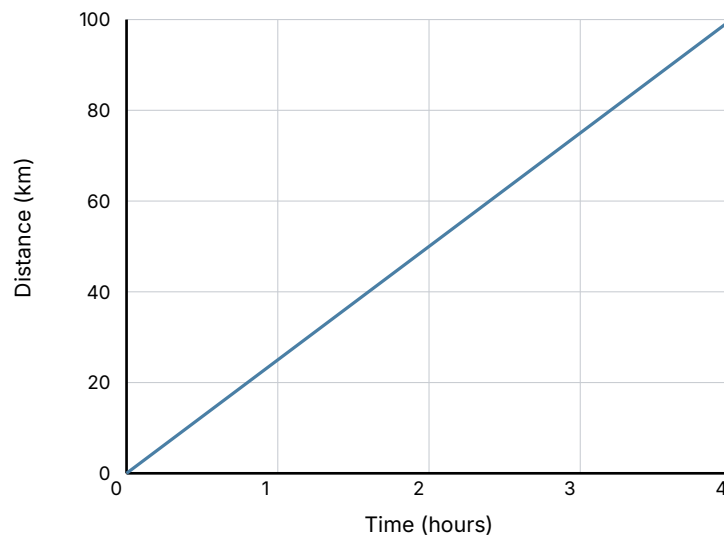
Answer _____

Q14

Grade 5

OCR style

The graph shows the first part of a journey. Work out the average speed during this part of the journey.



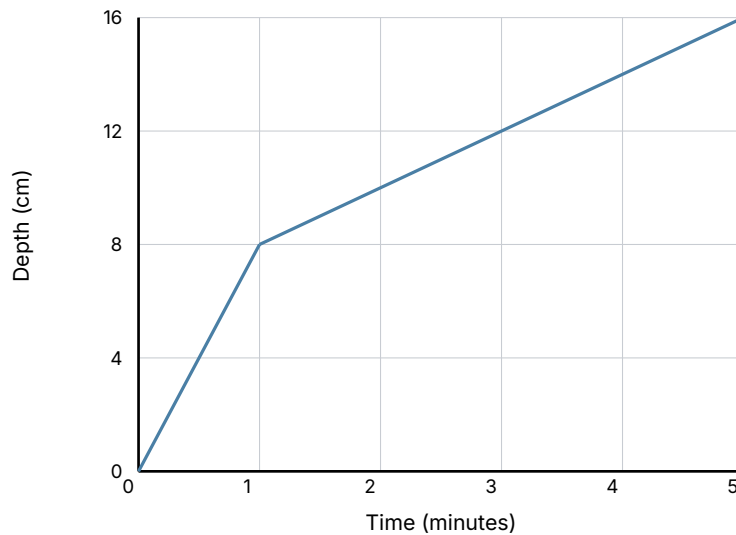
Answer _____

Q15

Grade 5

OCR style

The graph shows the depth of water in a container as it is filled at a steady rate, then a slower steady rate. (a) How long did it take to reach a depth of 8 cm? (b) What was the depth after 5 minutes?



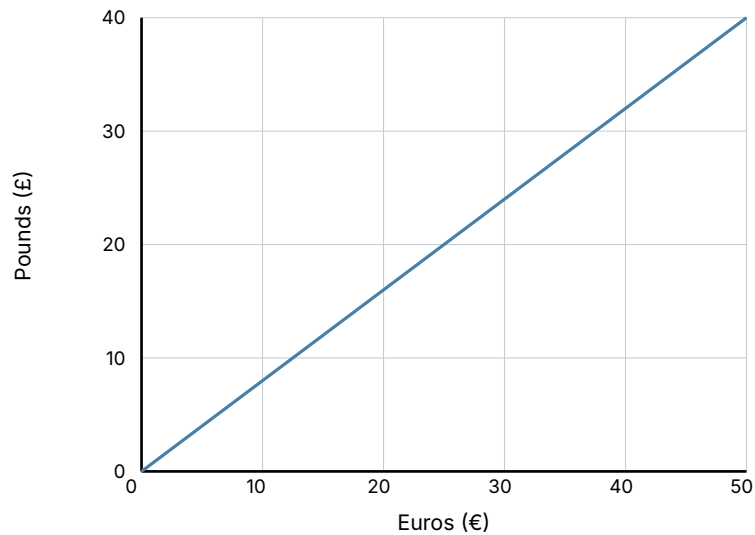
Answer _____

Teachably-style questions**Q16** 

Grade 3

Teachably style

The graph converts euros (€) to pounds (£). Use the graph to convert (a) €30 to pounds, and (b) £28 to euros.



Answer _____

teachably

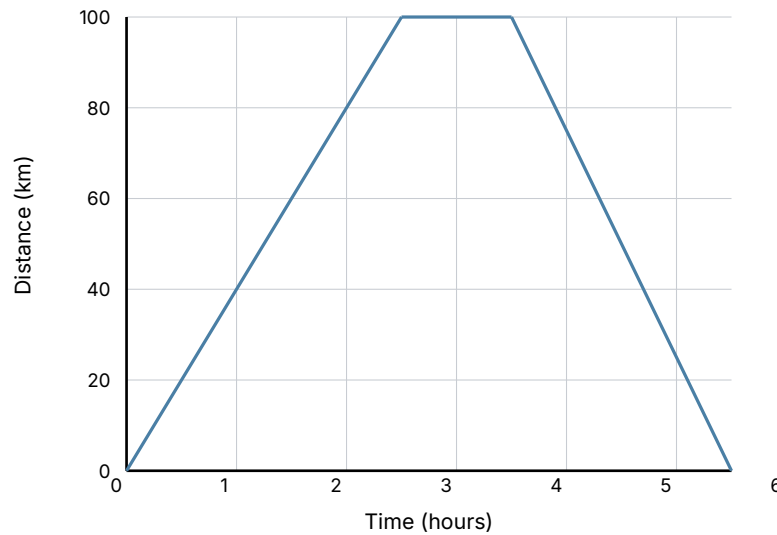
[2 marks]

Q17

Grade 3

Teachably style

The graph shows a journey. (a) How far had the person travelled after 2.5 hours? (b) For how long did the person stop?



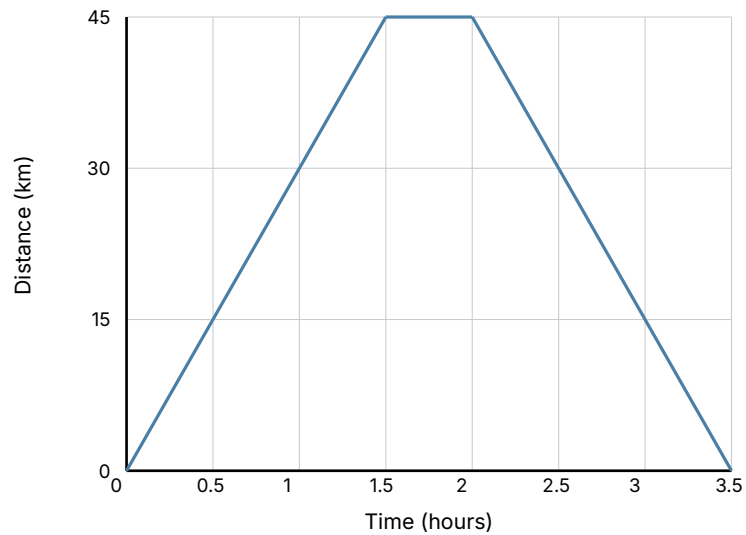
Answer _____

Q18

Grade 4

Teachably style

The graph shows a journey. Describe what is happening between 1.5 hours and 2 hours, and between 2 hours and 3.5 hours.



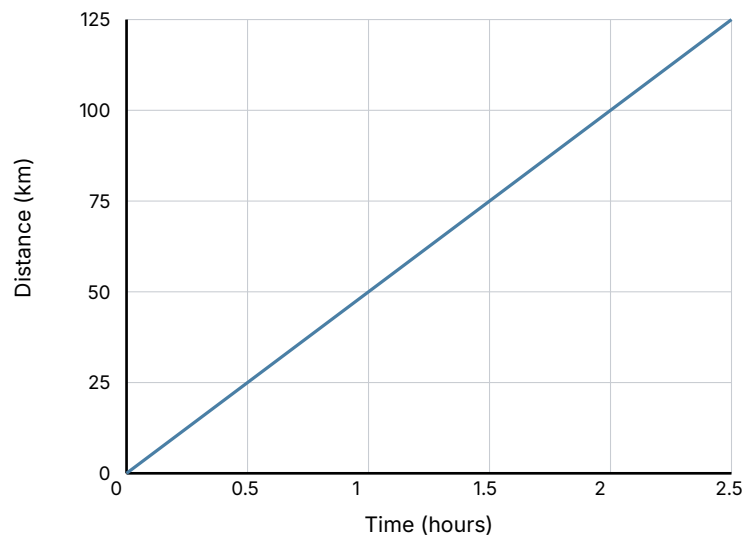
Answer _____

Q19

Grade 5

Teachably style

The graph shows the first part of a journey. Work out the average speed during this part of the journey.



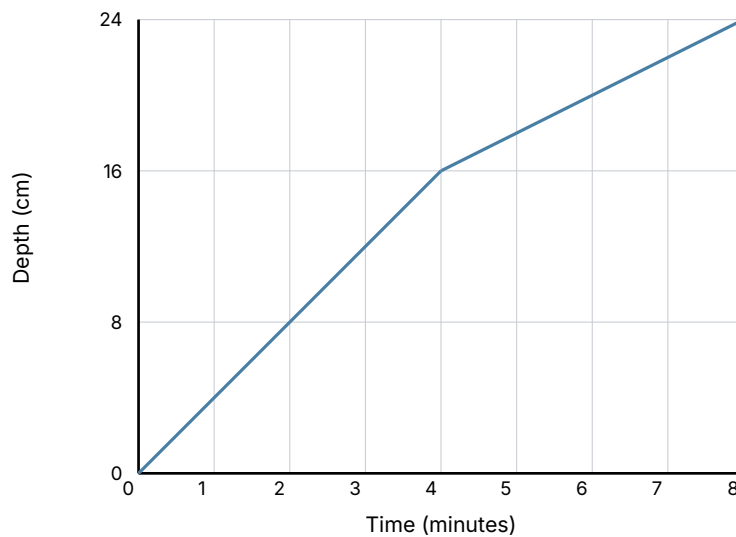
Answer _____

Q20

Grade 5

Teachably style

The graph shows the depth of water in a container as it is filled at a steady rate, then a slower steady rate. (a) How long did it take to reach a depth of 16 cm? (b) What was the depth after 8 minutes?



Answer _____

teachably

[2 marks]

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