



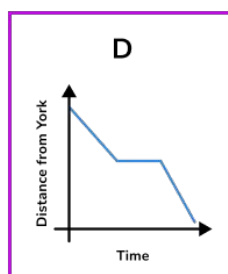
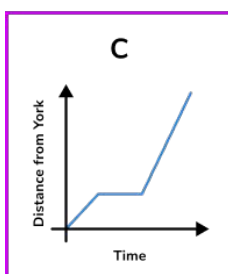
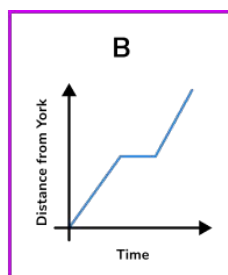
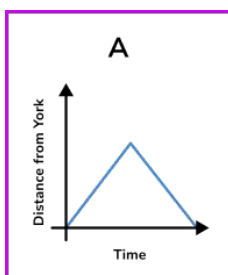
THIRD SPACE
LEARNING

GCSE Exam Questions

Distance-Time Graphs | Ratio & Proportion

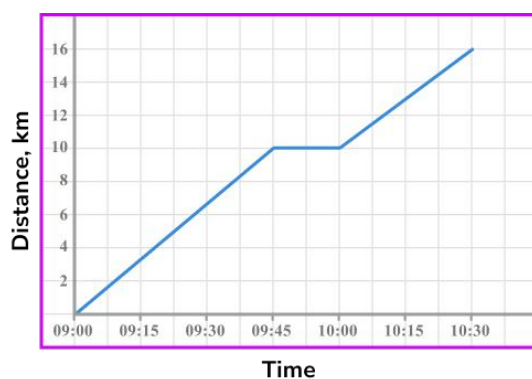
GCSE Exam Questions: Distance-Time Graphs

- 1) A salesperson was driving on a motorway from London to York.
He stopped at a motorway service station halfway into his journey.
Which of the distance-time graphs could represent his journey.



(1 mark)

- 2) The distance-time graph shows part of a journey Sarah took on a bike ride.



- (a) What did Sarah do between 09:45 and 10:00?

(1)

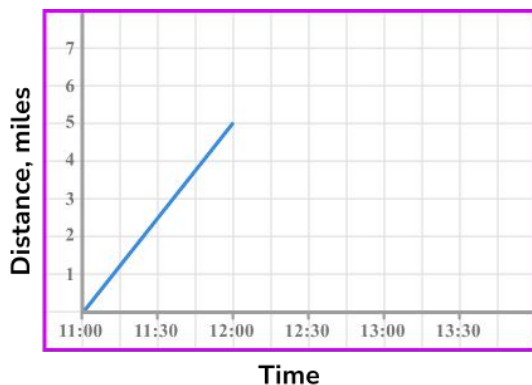
- (b) What was Sarah's speed between 10:00 and 10:30, in km/h?

(2)

(3 marks)

GCSE Exam Questions: Distance-Time Graphs

- 3) The distance-time graph shows the first part of a journey of a person on a shopping trip.



The person walked from their home to the shop and arrived at 12:00.

The person stays in the shop for 15 minutes and then catches a bus home.

The bus stopped outside their door and travelled at an average speed of 20 miles per hour.

- (a) At what speed did they walk to the shops?

Give your answer in miles per hour.

(1)

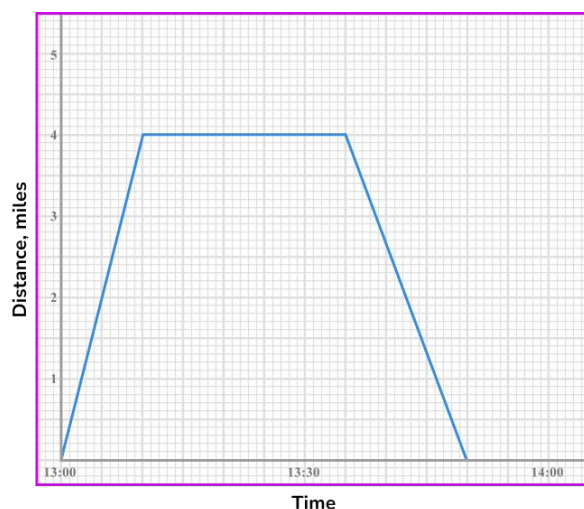
- (b) Complete the distance-time graph showing the remaining parts of their journey.

(3)

(4 marks)

GCSE Exam Questions: Distance-Time Graphs

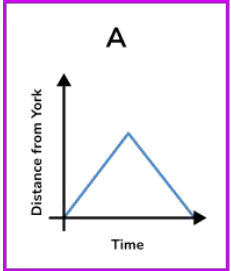
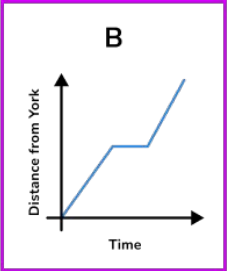
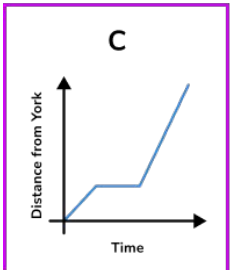
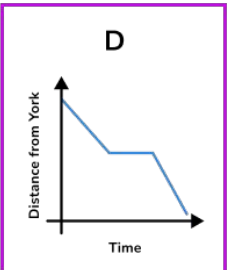
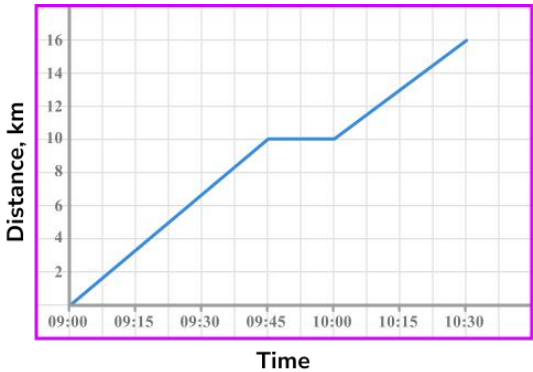
- 4) The distance-time graph shows Olivia's journey to the supermarket and then back home.



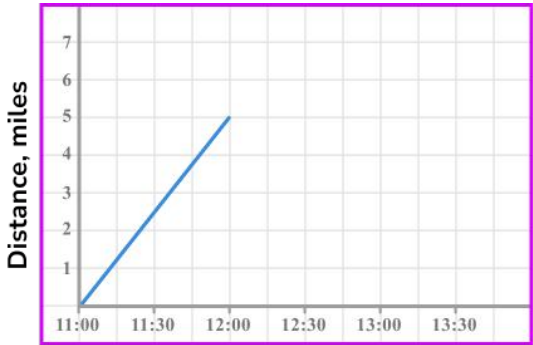
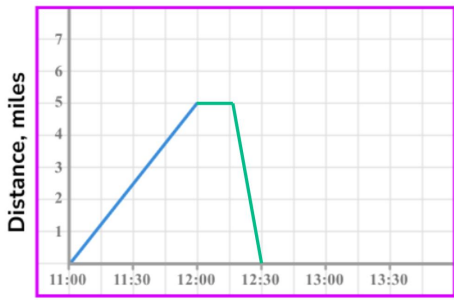
Find the difference between her speed travelling to the supermarket and her speed on her way back home.

(3 marks)

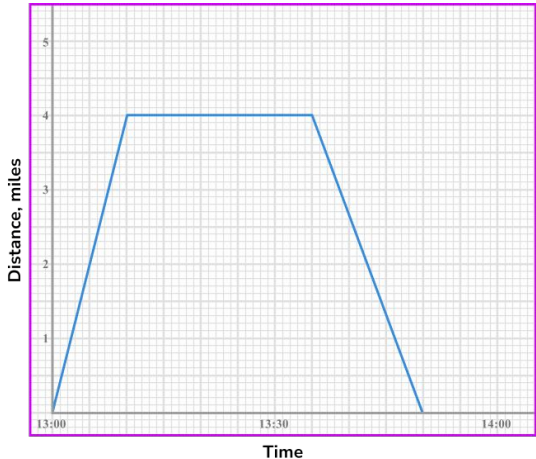
GCSE Exam Questions: Distance-Time Graphs Answers

	Question	Answer	Marks
1)	A salesperson was driving on a motorway from London to York. He stopped at a motorway service station halfway into his journey. Which of the distance-time graphs could represent his journey. A  B  C  D 	B	(1)
2)	The distance-time graph shows part of a journey Sarah took on a bike ride. 		
(a)	What did Sarah do between 09:45 and 10:00?	(a) She stopped moving/was stationary	(1)
(b)	What was Sarah's speed between 10:00 and 10:30, in km/h?	(b) $6 \div 0.5$ oe 12km/h	(1) (1)

GCSE Exam Questions: Distance-Time Graphs Answers

	Question	Answer	Marks
3)	The distance-time graph shows the first part of a journey of a person on a shopping trip.  Time The person walked from their home to the shop and arrived at 12:00 The person stays in the shop for 15 minutes and then catches a bus home. The bus stopped outside their door and travelled at an average speed of 20 miles per hour.		
(a)	At what speed did they walk to the shops? Give your answer in miles per hour.	(a) 5mph	(1)
(b)	Complete the distance-time graph showing the remaining parts of their journey.	(b) Horizontal line to (12:15, 5) $5 \div 20 = \frac{1}{4}$ hour oe Line from (12:15, 5) to (12:30, 0)  Time	(1) (1) (1)

GCSE Exam Questions: Distance-Time Graphs Answers

	Question	Answer	Marks
4)	The distance-time graph shows Olivia's journey to the supermarket and then back home.  Find the difference between her speed travelling to the supermarket and her speed on her way back home.	24mph or 16mph 24mph and 16mph $24 - 16 = 8\text{mph}$	(1) (1) (1)

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.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.