Corbett maths

Distance-Time Graphs
Video 171 on www.corbettmaths.com
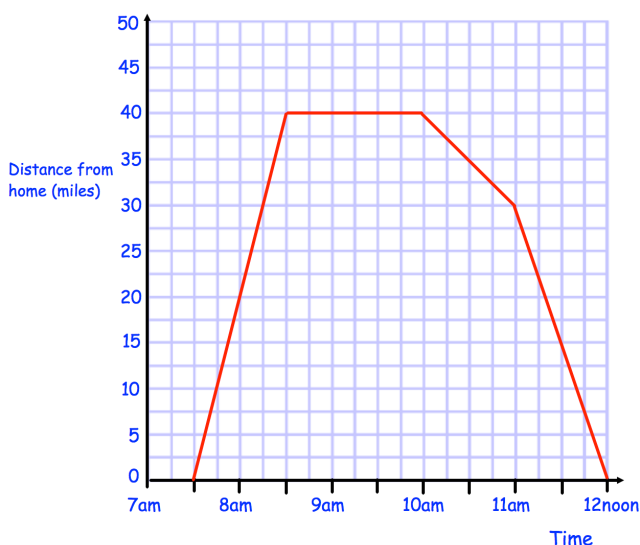
Examples

Workout

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Question 1:   The distance-time graph shows class 8A's journey to the zoo.
They stopped for a picnic on the way to the zoo.

(a) What time did the bus leave school?

(b) What time did they stop for a picnic?

(c)   How far had they travelled when they
stopped for a picnic?

(d)   How long did they stop for?

(e) What time did they arrive at the zoo?

(f) How far is the zoo from school?
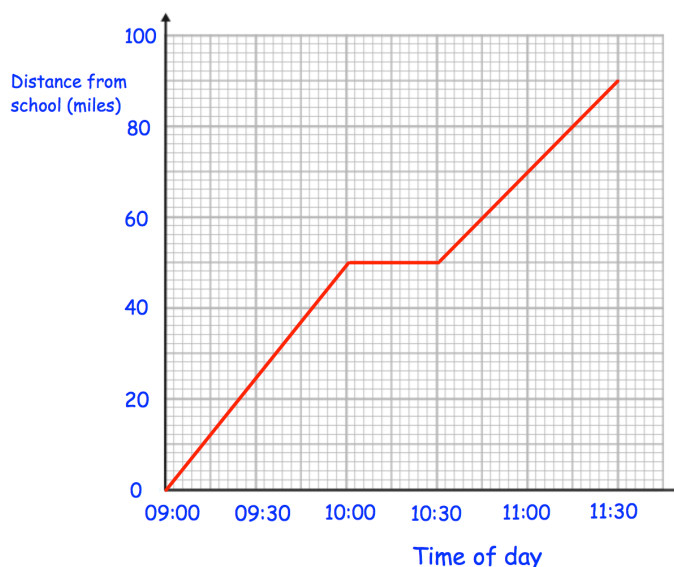
Question 2:   Emma travelled to her Grandmother's house and back.
The distance-time graph shows information about her journey.

(a)   What time did Emma begin her journey?

(b)   How far was Emma from home at 8am?

(c)   How long did Emma stay at her
Grandmother's house?

(d) What time did Emma leave her
Grandmother's house?

(e) How far was Emma from home at 11:45?

(f)   How far did Emma travel in total?

Question 3: A train travels from Milton to Redville, stops for 30 minutes, then travels to Leek.

(a) How long did it take the train to travel from Milton to Redville?

(b) How far is Redville from Milton?

(c) Work out the speed of the train for the journey from Milton to Redville.

(d) How long did it take the train to travel from Redville to Leek?

(e) How far is Leek from Redville?

(f) Work out the speed of the train for the journey from Redville to Leek.
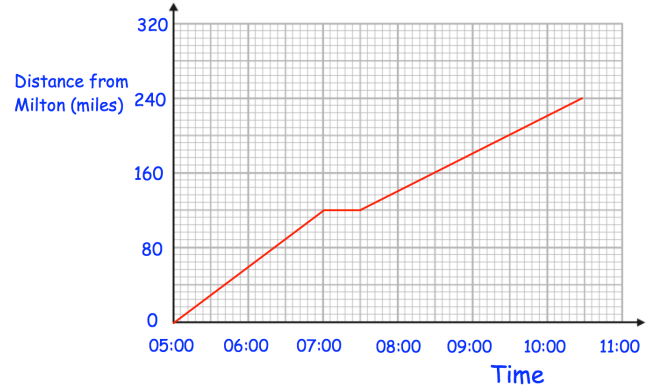
Question 4: Ben drove 60 kilometres, from his home to Liverpool. He stopped and visited his friend Tim on the way.

(a) Work out Ben's speed for the first part of his journey.

(b) How long did Ben spend visiting Tim?

(c) Work out Ben's speed for the last part of his journey.
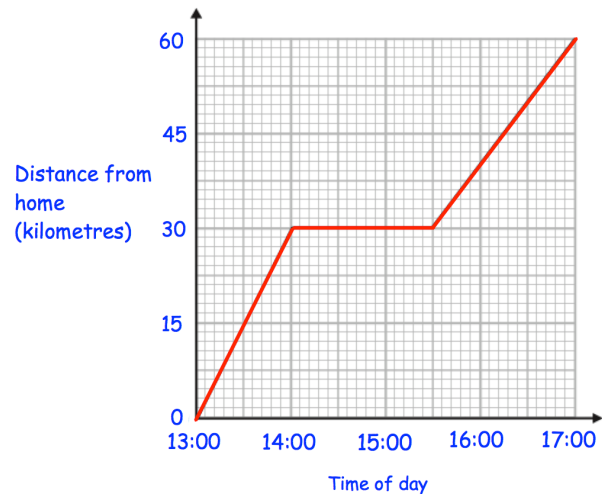
Question 5: Laura goes for a cycle from her house to the post office, 4km away.

(a) How long did it take Laura to cycle to the post office?

(b) Work out Laura's speed cycling to the post office.

(c) How long did Laura spend at the post office?

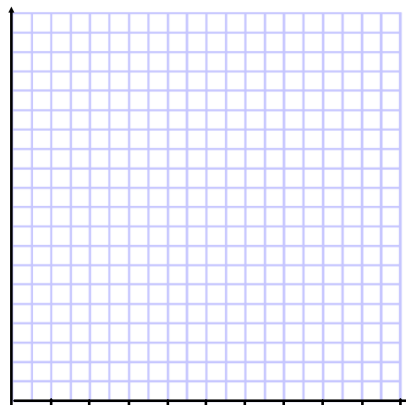(d) Work out Laura's speed cycling back home.
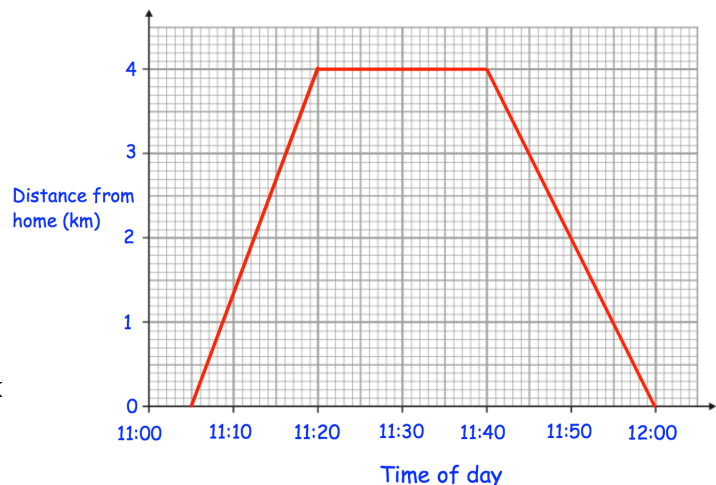
Apply

Question 1:

Erin leaves home at 11am.
She cycles at a speed of 16 miles per hour for 90 minutes.
She stops for half an hour.
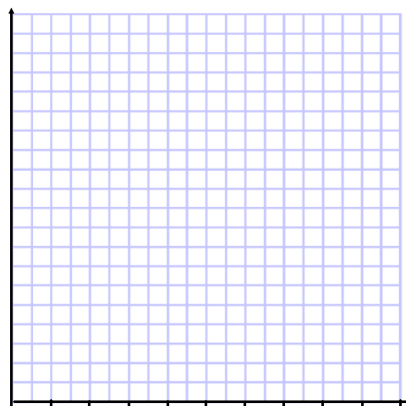Erin then cycles home and arrives at 3pm.

(a) Draw a distance-time graph to show Erin's journey.
(b) What is Erin's average speed on the
    return part of her cycle?

Question 2:

Thomas leaves home at 14:00
He drives at an average speed of 40mph for 3½ hours
Thomas stops for 30 minutes.
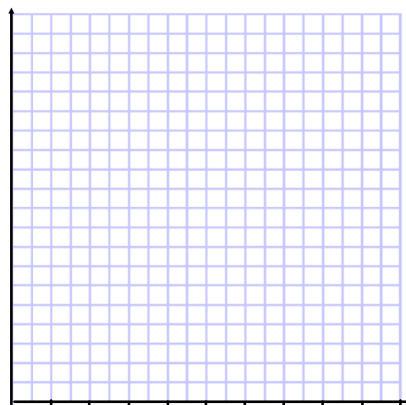He then drives home at an average speed of 70mph.

Draw a distance-time graph to show Thomas's journey

Question 3:

A helicopter leaves Bristol at 10:00.
It flies for 45 minutes at 80km/h.
It lands for 30 minutes and then flies a further
65 kilometres in 30 minutes.
The helicopter then immediately returns to
its base in Bristol, flying at 100km/h.

Draw a distance-time graph to show the journey.

Answers

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