Graphs of real-life situations

- Interpreting the information shown by a distance–time graph
- Interpreting the information shown by a speed–time graph

Keywords

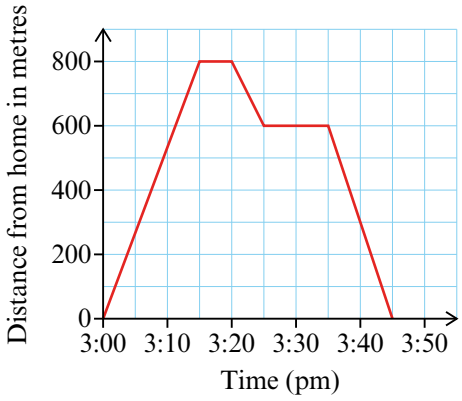
You should know

explanation 1 online

1 Gina went to the local shops.

On her way home she met some friends and stopped to talk to them.

The graph shows her journey.



a The shops are 800 m from Gina's house. How long did it take her to get there?

b How long did she spend at the shops?

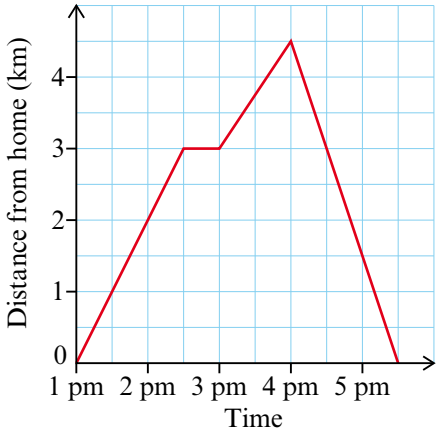
c Gina met her friends at 3:25 pm. How far from home was she?

d How long was Gina with her friends?

e What time did Gina get back home?

2 Danni sets off from home to take a walk.

The graph shows her journey.



a Danni stopped for a rest at one point.

What time did she stop?

b How long did she rest for?

c How far did she walk altogether?

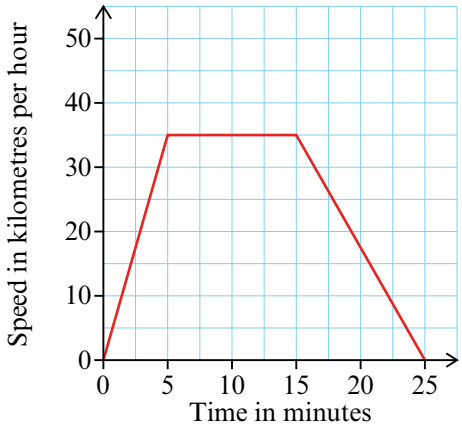
d How long did her return journey take?

e What time did she get home?

f How much time did she spend walking?

explanation 2 online

3 The speed–time graph shows a local train journey between two stations.



a What is the speed of the train after 5 minutes?

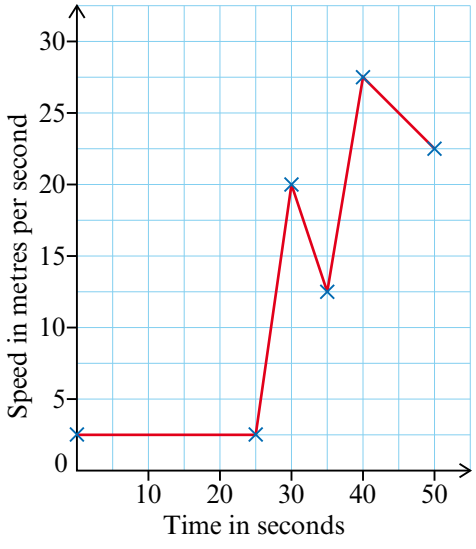
b How long does the train travel at this speed?

c After how many minutes does the train start to slow down?

d Approximately what speed is the train travelling at after 20 minutes?

e How long did the journey take?

4 The graph shows the speed of a rollercoaster during the first 50 seconds of a ride.



a For how long did the rollercoaster travel at 2.5 metres per second?

b What is the speed of the rollercoaster after 30 seconds?

c What is the speed of the rollercoaster after 35 seconds?

d After how many seconds does the rollercoaster reach its maximum speed?

e What was the maximum speed of the rollercoaster?