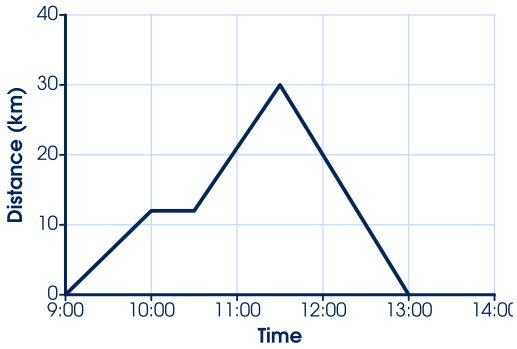
GCSE FOUNDATION · REVISION MAT 1

Distance-time graphs

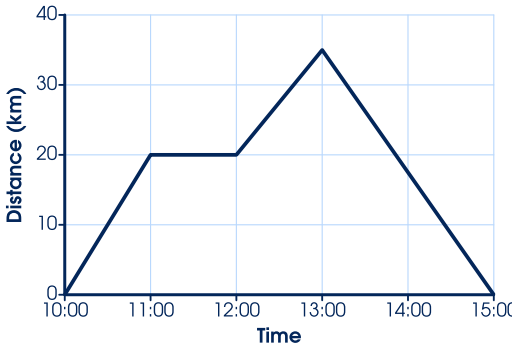
1 The graph shows Ravi's cycle ride.



(a) How far had Ravi travelled at 9:30?

(b) For how many minutes did Ravi stop?

2 The graph shows Sofia's cycle ride.



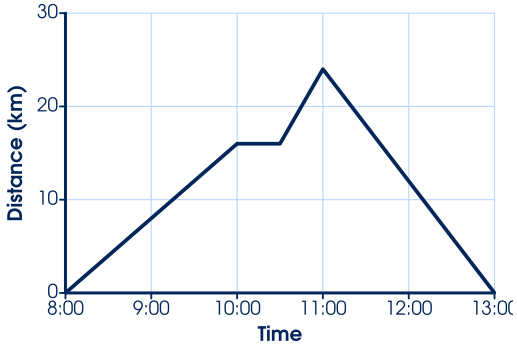
Work out the speed for the first part of the ride.

3 A distance–time graph has a horizontal section.

(a) Explain what a horizontal section shows.

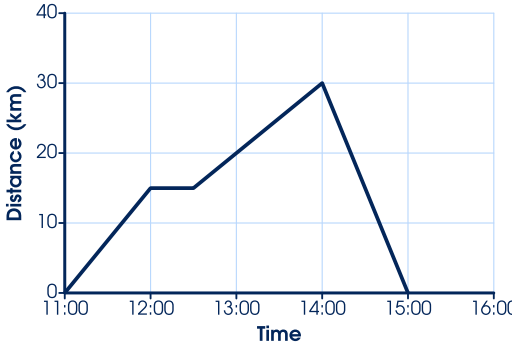
(b) Explain what a steeper line shows.

4 The graph shows Tariq's cycle ride.



Show that the speed on the way home was 12 km/h.

5 The graph shows Uma's cycle ride.



On which part of the ride was the speed greatest? Show how you decide.

6 Jo leaves home at 9:00.

She drives 30 km in 0.5 hours, stops for 30 minutes, then drives home at 40 km/h.

What time does she get home?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Distance-time graphs

1 (a) **6 km**

(b) **30 minutes**

2 20 km ÷ 1 h = **20 km/h**

3 (a) The distance is not changing, so the person is **stopped**.

(b) More distance is covered in the same time, so they are **moving faster**.

4 Distance 24 km in 2 hours

24 ÷ 2 = 12 km/h ✓

5 Out (1st part): 15 km/h
Out (2nd part): 10 km/h
Home: 30 km/h

Greatest on **the way home**

6 Home journey: 30 ÷ 40 = 0.75 h = 45 min

Total: 30 + 30 + 45 = 105 min

Home at **10:45**