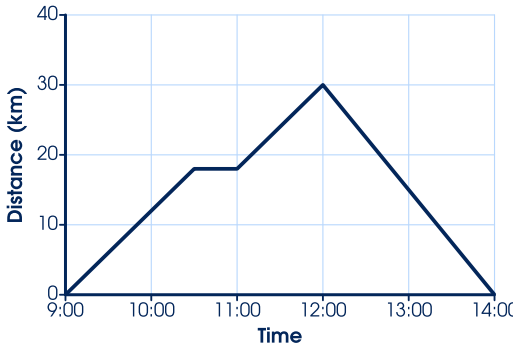
GCSE FOUNDATION · REVISION MAT 5

Distance-time graphs

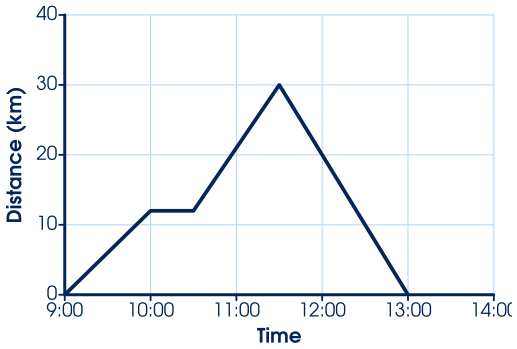
1 The graph shows Vince's cycle ride.



(a) How far had Vince travelled at 9:60?

(b) For how many minutes did Vince stop?

2 The graph shows Ravi's cycle ride.



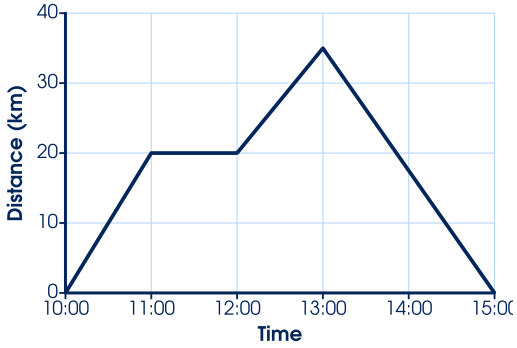
Work out the speed for the first part of the ride.

3 A distance–time graph has a horizontal section.

(a) Explain what a horizontal section shows.

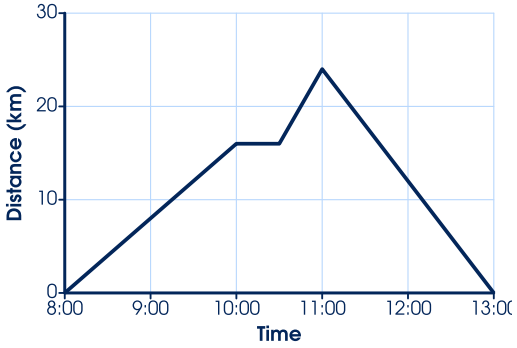
(b) Explain what a steeper line shows.

4 The graph shows Sofia's cycle ride.



Show that the speed on the way home was 17.5 km/h.

5 The graph shows Tariq's cycle ride.



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

6 Jo leaves home at 1:15.

She drives 50 km in 1 hours, stops for 40 minutes, then drives home at 40 km/h.

What time does she get home?

ANSWERS · REVISION MAT 5

Distance-time graphs

1 (a) **12 km**

(b) **30 minutes**

2 12 km ÷ 1 h = **12 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 35 km in 2 hours

35 ÷ 2 = 17.5 km/h ✓

5 Out (1st part): 8 km/h
Out (2nd part): 16 km/h
Home: 12 km/h

Greatest on **the second part of the way out**

6 Home journey: 50 ÷ 40 = 1.25 h = 75 min

Total: 60 + 40 + 75 = 175 min

Home at **4:10**