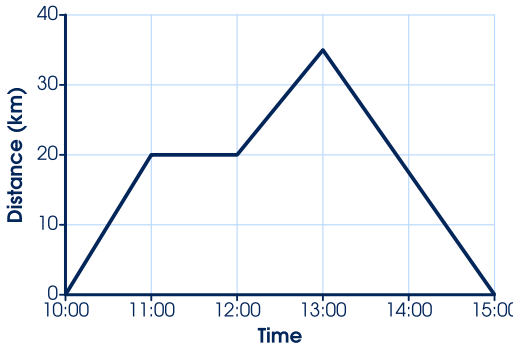
GCSE FOUNDATION · REVISION MAT 2

Distance-time graphs

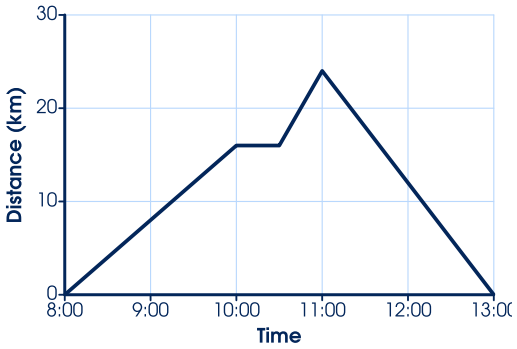
1 The graph shows Sofia's cycle ride.



(a) How far had Sofia travelled at 10:60?

(b) For how many minutes did Sofia stop?

2 The graph shows Tariq's cycle ride.



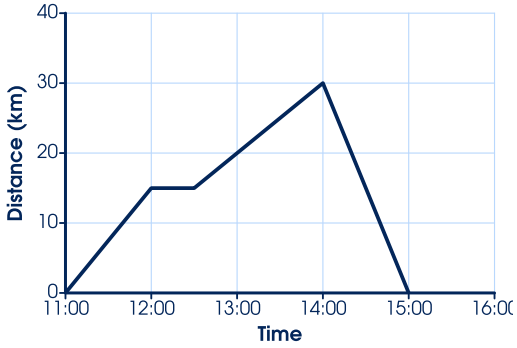
Work out the speed for the first part of the ride.

3 A distance–time graph has a horizontal section.

(a) Explain what a horizontal section shows.

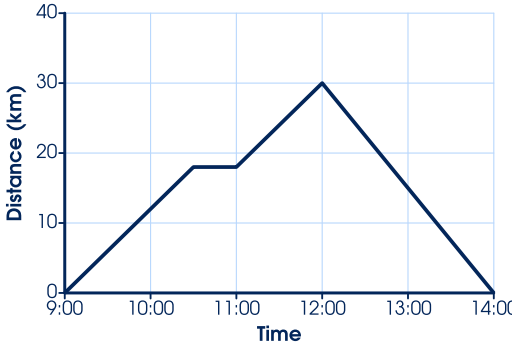
(b) Explain what a steeper line shows.

4 The graph shows Uma's cycle ride.



Show that the speed on the way home was 30 km/h.

5 The graph shows Vince's cycle ride.



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

6 Jo leaves home at 8:30.

She drives 40 km in 1 hours, stops for 20 minutes, then drives home at 50 km/h.

What time does she get home?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Distance-time graphs

1 (a) **20 km**

(b) **60 minutes**

2 16 km ÷ 2 h = **8 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 30 km in 1 hours

30 ÷ 1 = 30 km/h ✓

5 Out (1st part): 12 km/h
Out (2nd part): 12 km/h
Home: 15 km/h

Greatest on **the way home**

6 Home journey: 40 ÷ 50 = 0.8 h = 48 min

Total: 60 + 20 + 48 = 128 min

Home at **10:38**