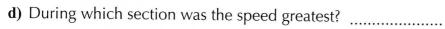
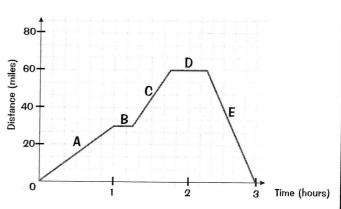
Travel and Conversion Graphs

- Q1 The graph shows Nicola's car journey from her house to Alan's house and back, picking up Robbie on the way.
 - a) If Nicola started her trip at 10.00 am at what time did she return home?
 - **b)** How far is Robbie's house from Nicola's?
 - c) How long did they stop at Alan's for?



- e) How long did the return journey take?
- f) What was the speed of the car during section E?



You can work out where the houses are by looking for the flat parts of the graph — the bits where Nicola stops.

- Marcus competes in a 10 km race. All the runners are given a small device to wear which records the time as they pass through certain checkpoints. Later, Marcus gets a graph of his performance during the race, shown below.
 - a) Between what times was Marcus running the <u>fastest</u>?

b) Calculate his fastest speed in km/hr.

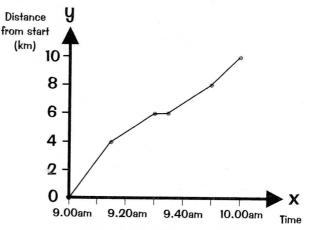
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c) What time did Marcus stop for a drink?

d) For how long did he stop?

e) How long did it take Marcus to complete the 10 km run (in hours)?

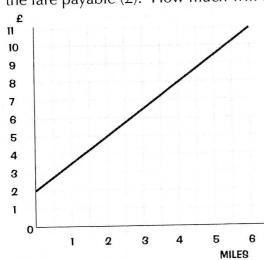
f) What was the <u>average speed</u> for his entire run? _____





Travel and Conversion Graphs

This graph can be used to convert the distance (miles) travelled in a taxi to the fare payable (£). How much will the fare be if you travel:



- **a)** 2 miles
- **b)** 5 miles
- **c)** 10 miles
- d) Mike lives 4.5 miles away from his friend. Is £16 enough money for Mike to get a taxi to his friend's house and back?

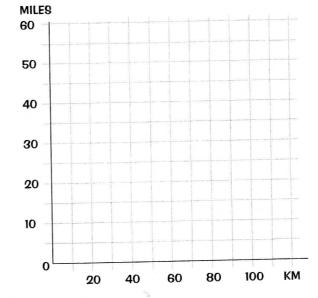
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80 km is roughly equal to 50 miles. Use this information to draw a conversion graph on the grid. Use the graph to estimate the number of miles equal to:

- a) 20 km
- **b)** 70 km
- c) 90 km

Q5 How many km are equal to:

- a) 40 miles
- **b)** 10 miles
- **c)** 30 miles



80 60 £ 40 20 10 20 30 40 50 litres

Q6 Shelley fills up her car at a petrol station. Petrol costs her 150p per litre. Use this information to draw a conversion graph on the grid.

How much will it cost Shelley to fill her car up with 40 litres of petrol?