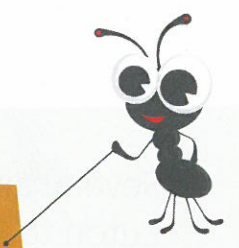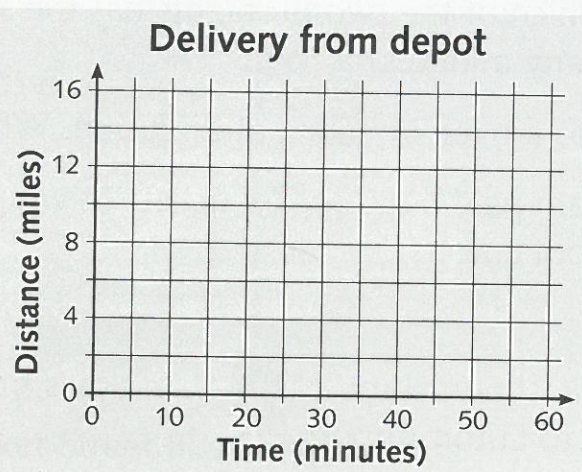# On the move

Use coordinates and scales to interpret information in time graphs

Challenge 1

1 This table shows the time and distance for a van driver's journey from the depot to a customer and back to the depot.

Copy and complete the time graph.

You will need:
- 1 cm squared paper
- ruler

| Time (minutes)	Distance (miles)
0	0
10	6
20	10
25	14
35	14
50	8
60	0

Delivery from depot

2 How many miles from the customer was the van driver at these times?

a 15 minutes   b 20 minutes   c 50 minutes   d 55 minutes

Challenge 2

1 The graph shows Mr Kerr's out and return journey from home to the airport to collect his son. How many miles from the airport was Mr Kerr at these times?

a 10 minutes
b 20 minutes
c 23 minutes

Out and return journey
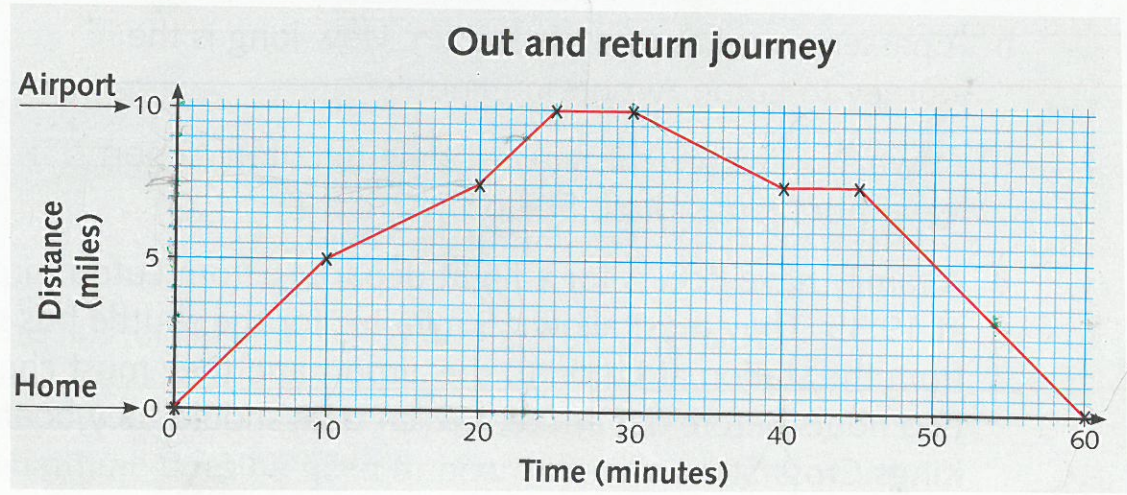
2 How many miles from home was Mr Kerr at these times?

a 45 minutes   b 50 minutes   c 54 minutes

3 How many minutes did it take Mr Kerr to drive to the airport?

4 For how many minutes was Mr Kerr parked at the airport?

5 On the return journey Mr Kerr stopped to buy petrol.

a How long did he spend at the petrol station?

b How many more miles did he and his son have to drive to get home?

6 How many minutes did Mr Kerr spend driving his car?
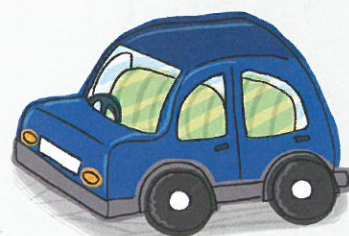
Challenge 3

The time graph below shows the flights made by the captain of an aircraft in one day. Design a log book to record the captain's flights. For each flight, record:

- the names of the departure and arrival cities
- the take-off and landing times
- the time spent on the ground at the airport
- the distance flown between each city.

You will need:
- 1 cm squared paper
- ruler

Flight record for Monday