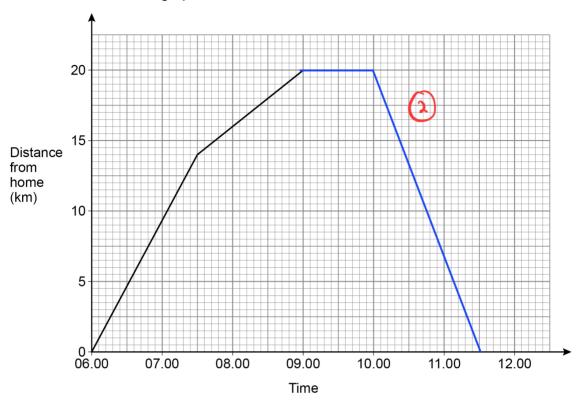
1 Jenny leaves home at 06.00

She runs for 3 hours.

Here is a distance-time graph of her run.



1 (a) How far from home is she after 3 hours?

[1 mark]

Answer	20	km

1 (b) For the next hour she rests.

She then gets a bus home.

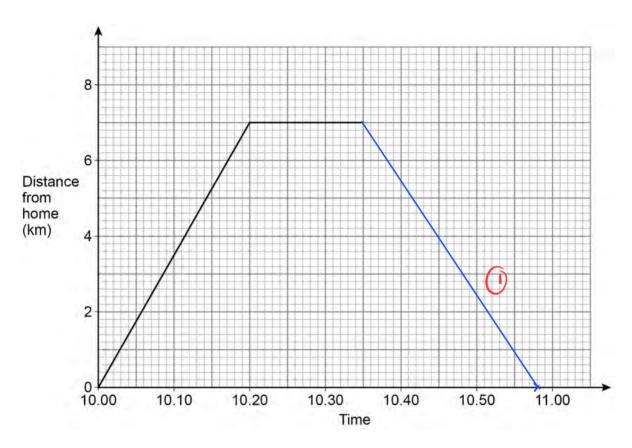
She arrives home at 11.30

Complete the distance-time graph.

Assume the bus travels at a constant speed.

[2 marks]

Scarlett leaves home at 10.00 to cycle to the supermarket.Here is part of a distance-time graph of her trip to the supermarket.



2 (a) She arrives at the supermarket at 10.20

How far is the supermarket from her home?

[1 mark

Answer 7 (i) km

2 (b) She leaves the supermarket at 10.35

How long does she stay at the supermarket?

[1 mark

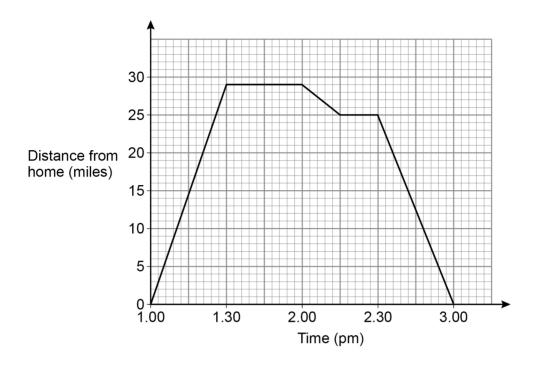
Answer 15 (1) minutes

2 (c) Scarlett cycles home at a constant speed using the same route. It takes her 3 minutes longer than her journey to the supermarket.

Complete the distance-time graph.

[2 marks

3 Here is the distance-time graph for a car between 1 pm and 3 pm



Work out the **total** time that the car is **not** moving between 1 pm and 3 pm State the units of your answer.

[2 marks]

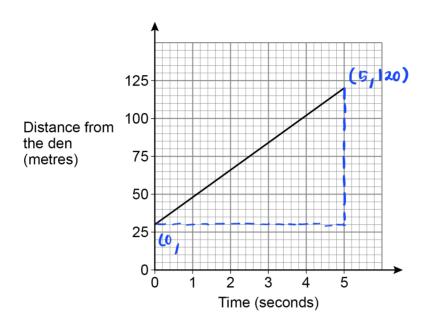
3 (b) Work out the total distance the car travels between 1 pm and 3 pm

[2 marks]

Answer _____ miles

4 A lion is sprinting in a straight line away from its den.

The graph shows the lion's distance from the den.



Work out the speed of the lion in metres per second.

[3 marks]

$$=\frac{120-30}{5}$$

Answer

18

__m/s