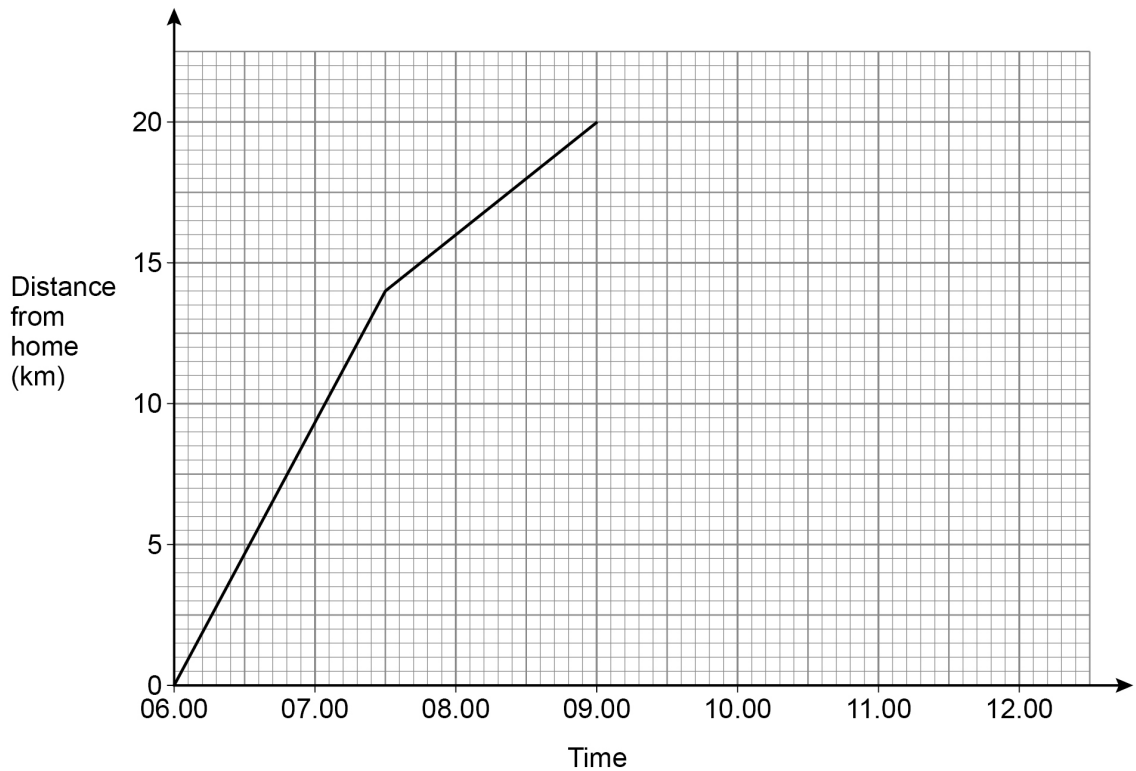


- 1** Jenny leaves home at 06.00  
She runs for 3 hours.  
Here is a distance-time graph of her run.



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

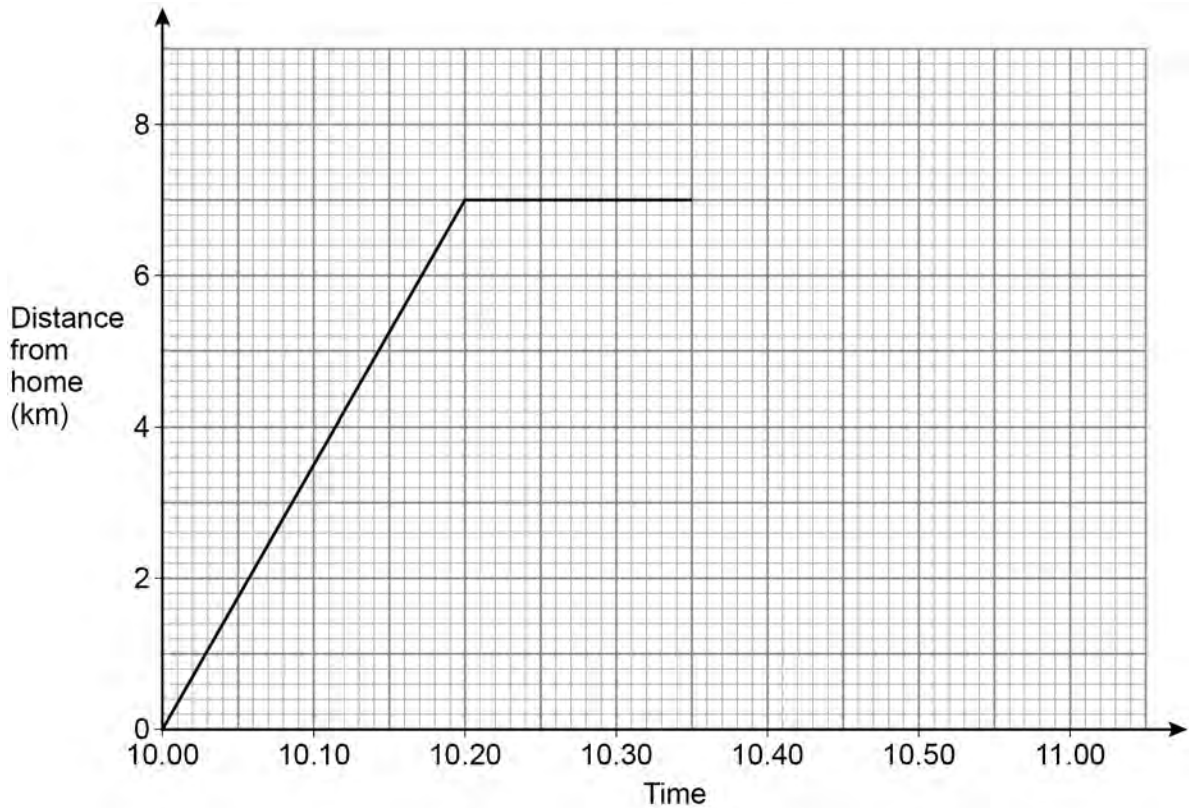
[1 mark]

Answer \_\_\_\_\_ 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]

- 2** 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 \_\_\_\_\_ km

- 2 (b)** She leaves the supermarket at 10.35  
How long does she stay at the supermarket?

[1 mark]

Answer \_\_\_\_\_ minutes

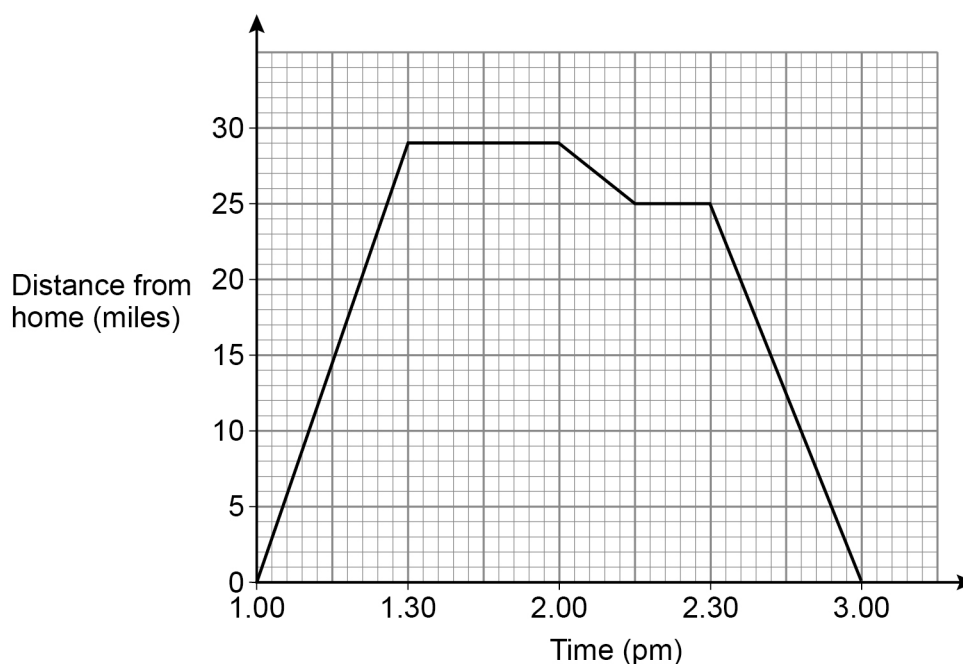
- 2 (c)** Scarlett cycles home at a constant speed using the same route.  
It takes her 3 minutes longer than her journey to the supermarket.  
Complete the distance-time graph.

**[2 marks]**

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



- 3 (a) 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]

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Answer \_\_\_\_\_

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

[2 marks]

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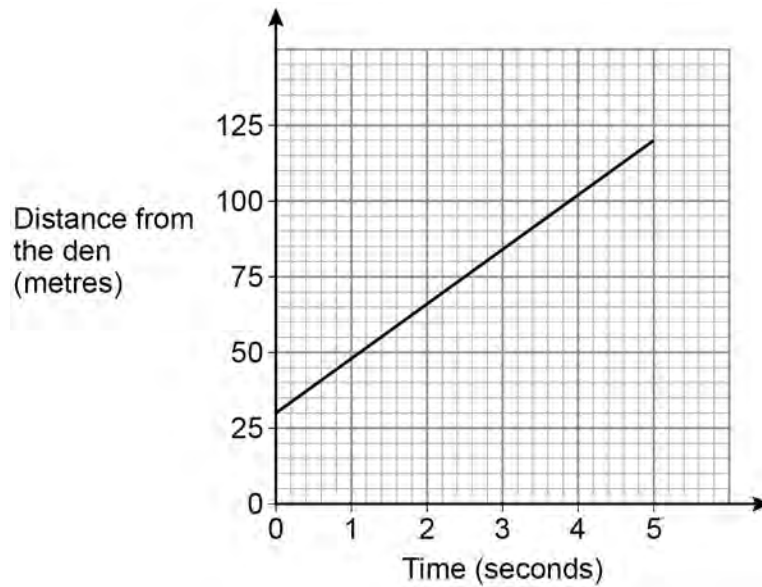
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Answer \_\_\_\_\_ miles

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]**

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Answer \_\_\_\_\_ m/s