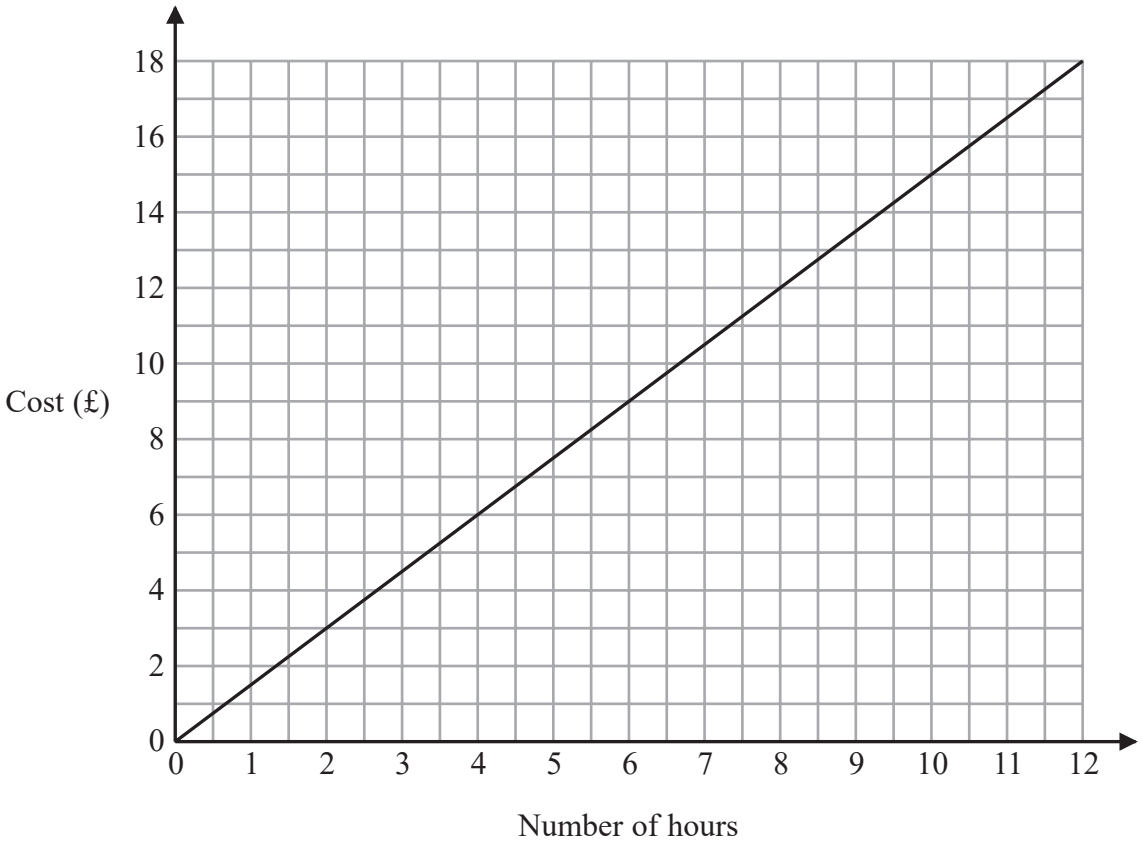
# Real Life and Distance Time Graphs

**10** This graph can be used to find the cost of parking a car in a car park for up to 12 hours.




(a) Use the graph to find the cost of parking a car for 4 hours.

£.....

**(1)**

Justin drives into the car park at 08 00 in the morning.
When he drives out of the car park he has to pay £9

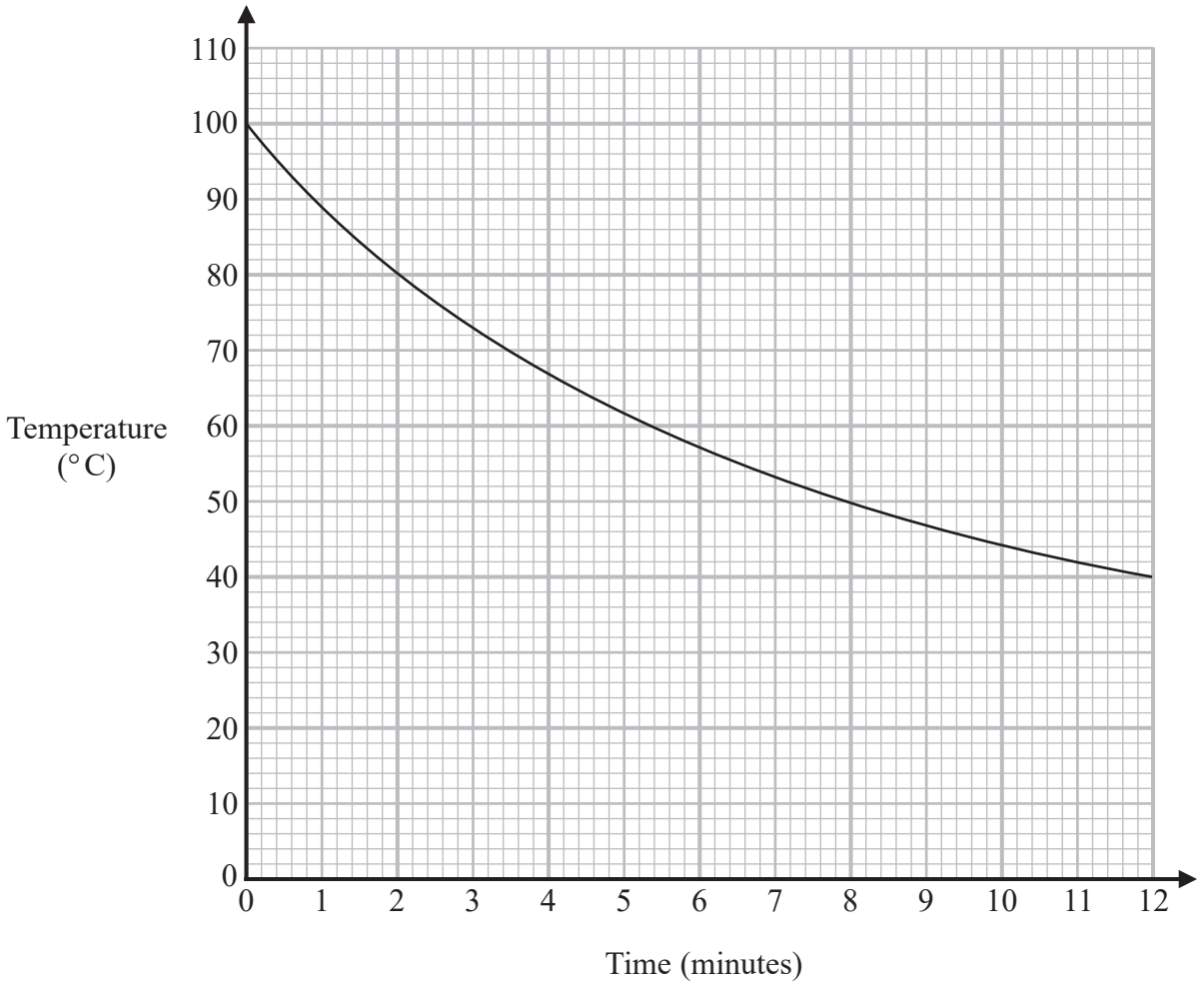
(b) At what time does Justin drive out of the car park?

.....

**(3)**

**(Total for Question 10 is 4 marks)**

**10** The graph shows information about the time, in minutes, a liquid has been cooling and the temperature of the liquid in °C.




(a) What is the temperature of the liquid at time 2 minutes?

..... °C

**(1)**

Pam recorded the time when the liquid had a temperature of 50° C.

(b) Write down this time.

..... minutes

**(1)**

Pam says that the temperature of the liquid drops more in the first 3 minutes of cooling than it does between time 9 minutes and time 12 minutes.

(c) Is Pam correct?
Give a reason for your answer.

.....

.....

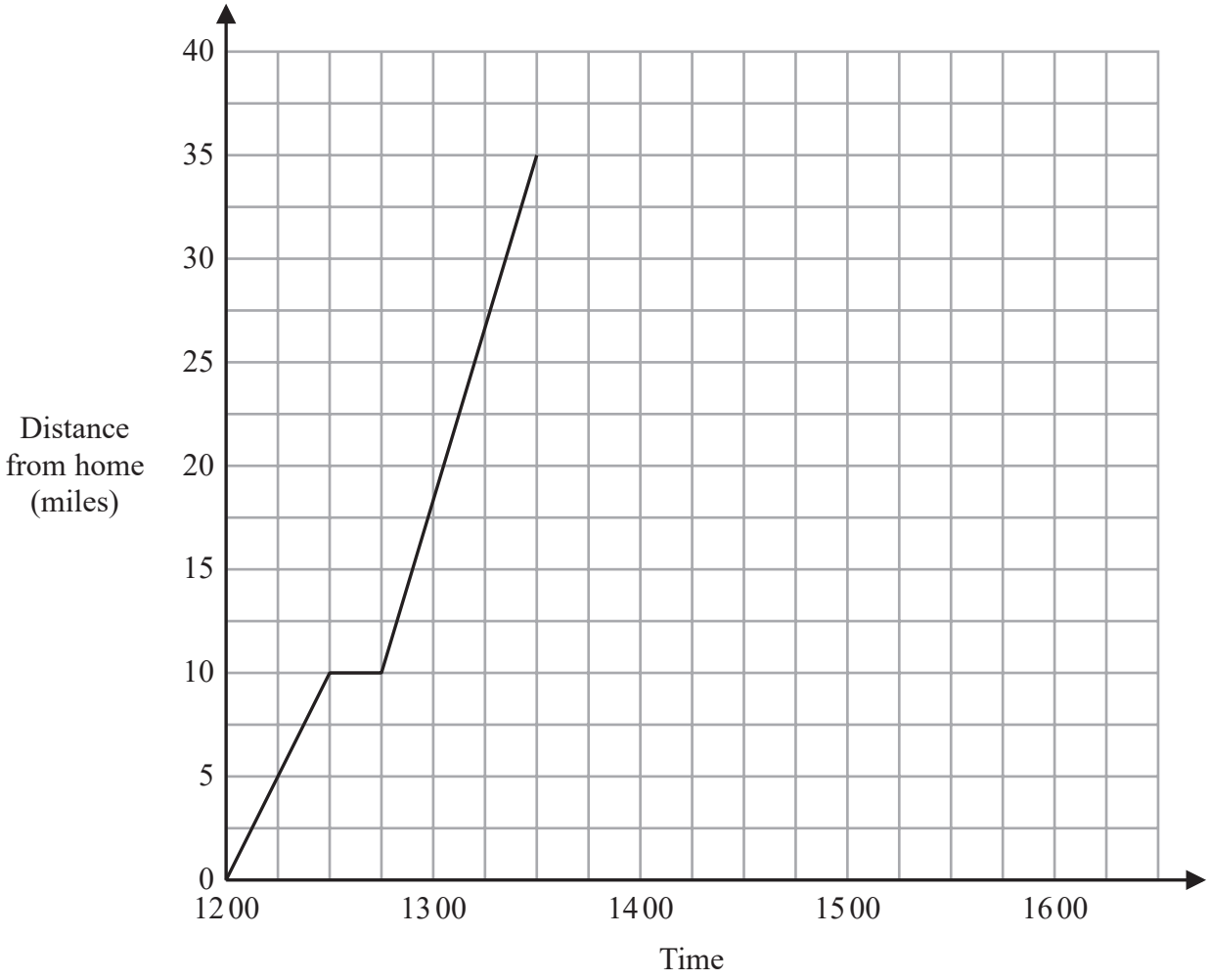
.....

**(1)**

**(Total for Question 10 is 3 marks)**

**13** Rowena drove from her home to a beach.

Here is a travel graph for her journey.




Rowena stopped at a cafe on her way to the beach.

(a) (i) How many minutes did Rowena take to drive to the cafe?

..... minutes

**(1)**

(ii) Write down the distance from Rowena's home to the cafe.

..... miles

**(1)**

Rowena stayed at the beach for $1\frac{1}{2}$ hours.

She then drove home without stopping.
Rowena arrived home at 16 00

(b) On the grid, complete the travel graph.

**(2)**

(c) Work out the average speed for the journey from the beach to Rowena's home.

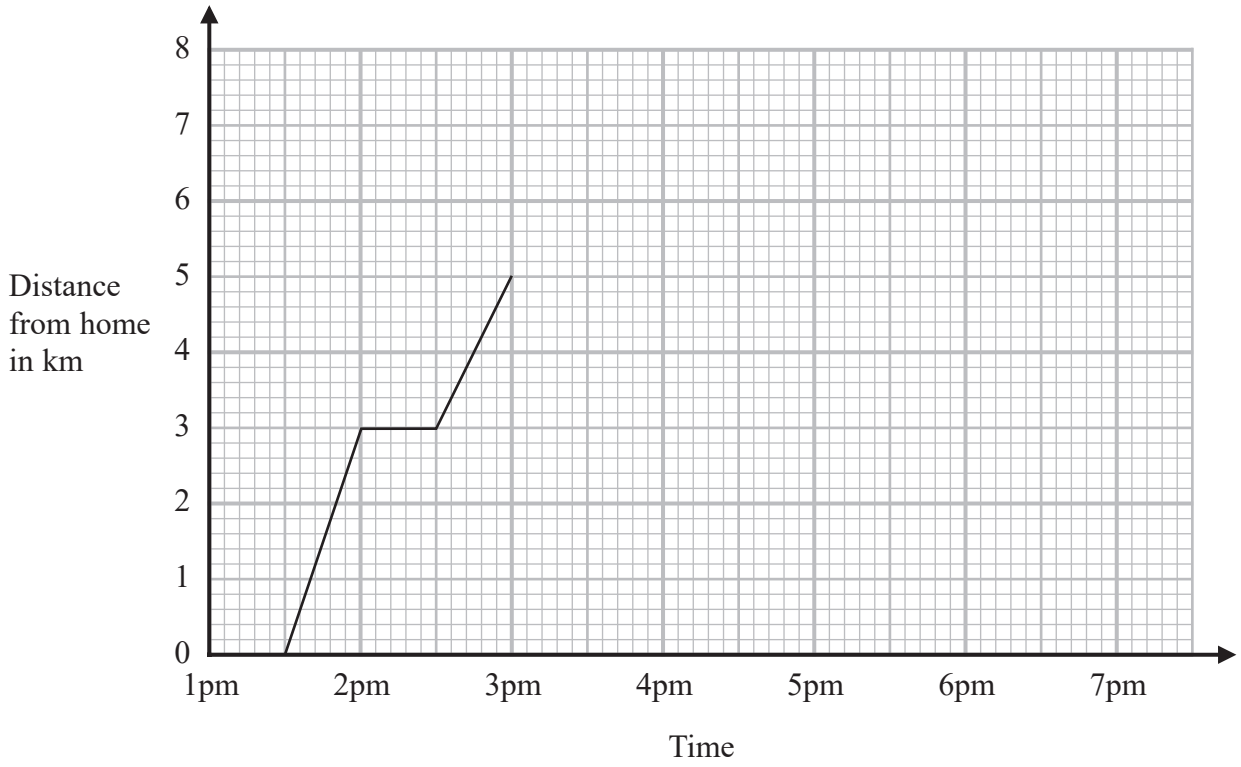
..... miles per hour

**(1)**

**(Total for Question 13 is 5 marks)**

**14** Amy walked from her home to the skate park.

The travel graph of Amy's walk to the skate park is shown below.




On the way to the skate park Amy stopped at her friend's house.

(a) How far is it from her friend's house to the skate park?

..... km

**(1)**

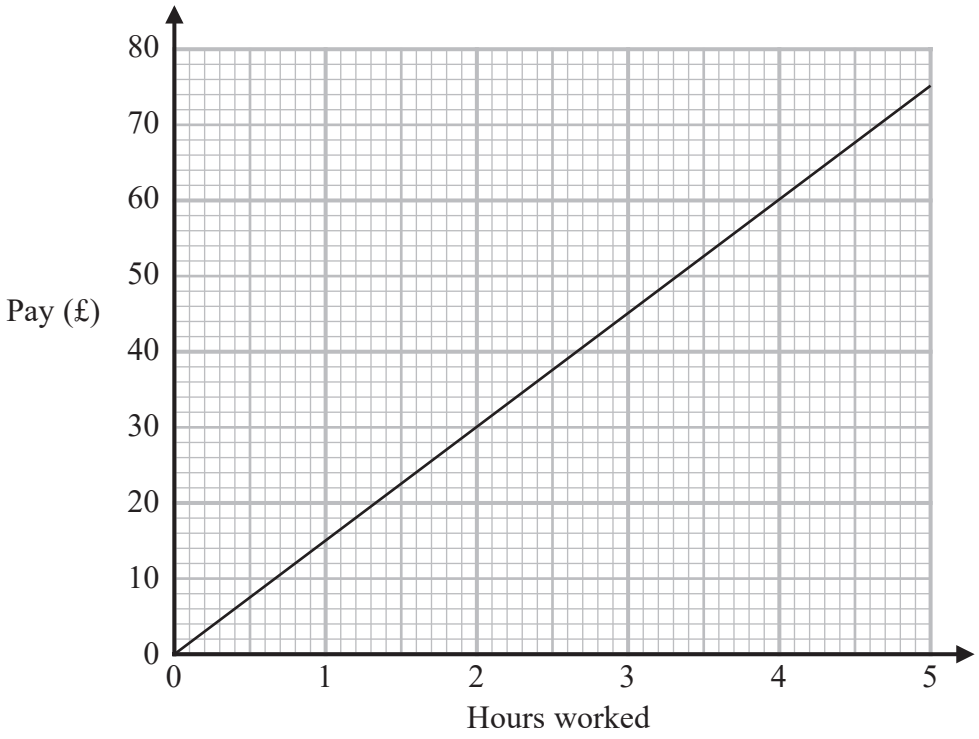
Amy stayed at the skate park for 2 hours.
Then she walked home at a steady speed.
She took 1 hour 30 minutes to walk home.

(b) Complete the travel graph.

**(2)**

**(Total for Question 14 is 3 marks)**

**14** Nazima uses this graph to find out how much money she is paid for the number of hours she has worked.




(a) How much money is Nazima paid for each hour she works?

£.....

**(1)**

Last week Nazima worked for 36 hours.

(b) How much money was Nazima paid?

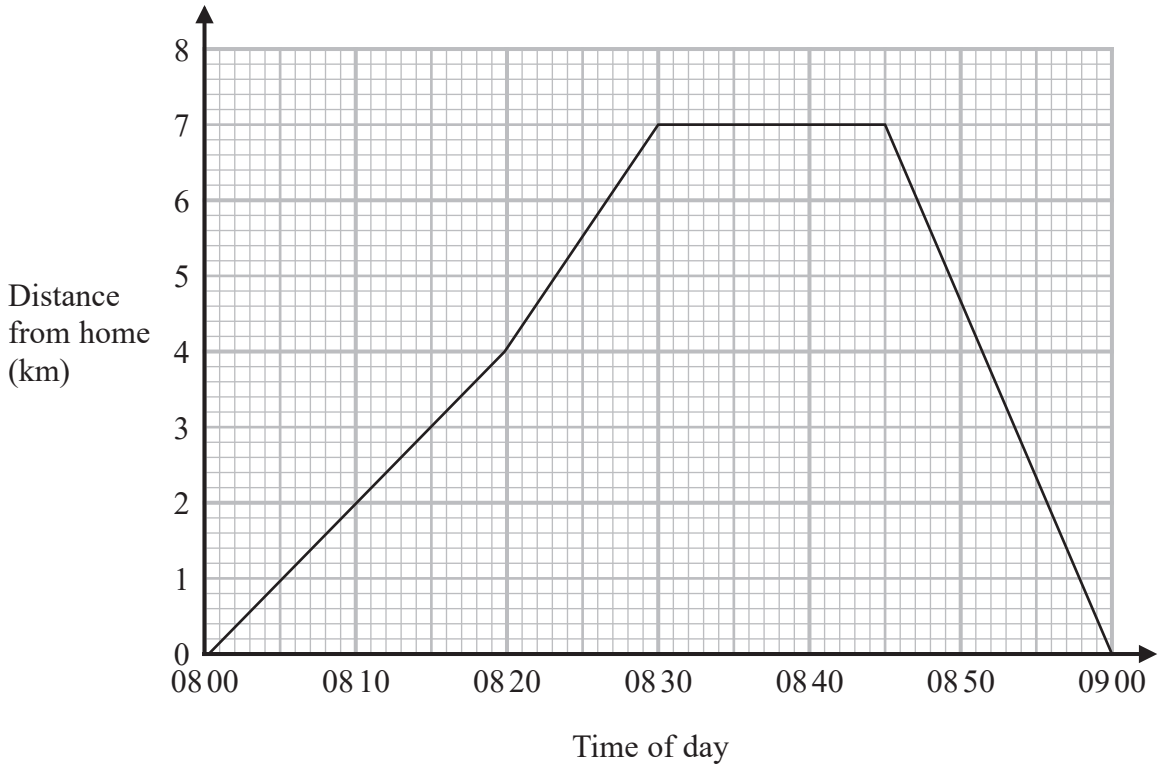
£.....

**(2)**

**(Total for Question 14 is 3 marks)**

**19** Carly cycles to her friend's house.
She stays at her friend's house for a number of minutes.
Then she cycles home.

Here is the travel graph for her journey.




(a) For how many minutes did Carly stay at her friend's house?

..... minutes
**(1)**

(b) How far is Carly from her home at 08 50?

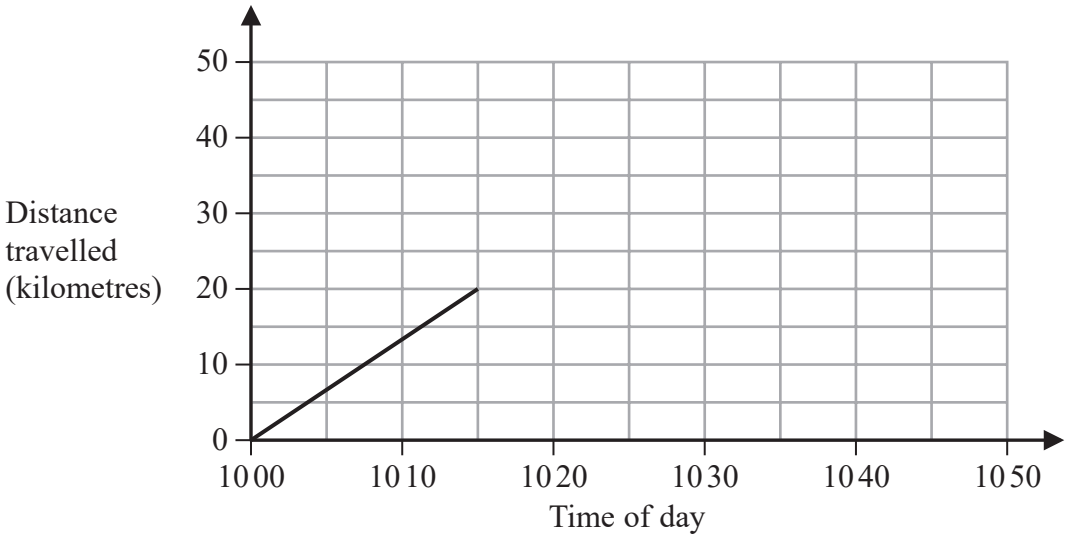
..... km
**(1)**

(c) Work out Carly's speed, in km/h, for the first 20 minutes of her journey.

..... km/h
**(2)**

**(Total for Question 19 is 4 marks)**

**23** Sam drives his car on a journey.
Here is the travel graph for the first 15 minutes of his journey.




(a) Work out Sam's speed, in km/h, for the first 15 minutes of his journey.

..... km/h

**(2)**

At 10 15 Sam stops for 10 minutes and then drives for 20 minutes at a speed of 75 km/h.

(b) On the grid, complete the travel graph for Sam's journey.

**(3)**

**(Total for Question 23 is 5 marks)**