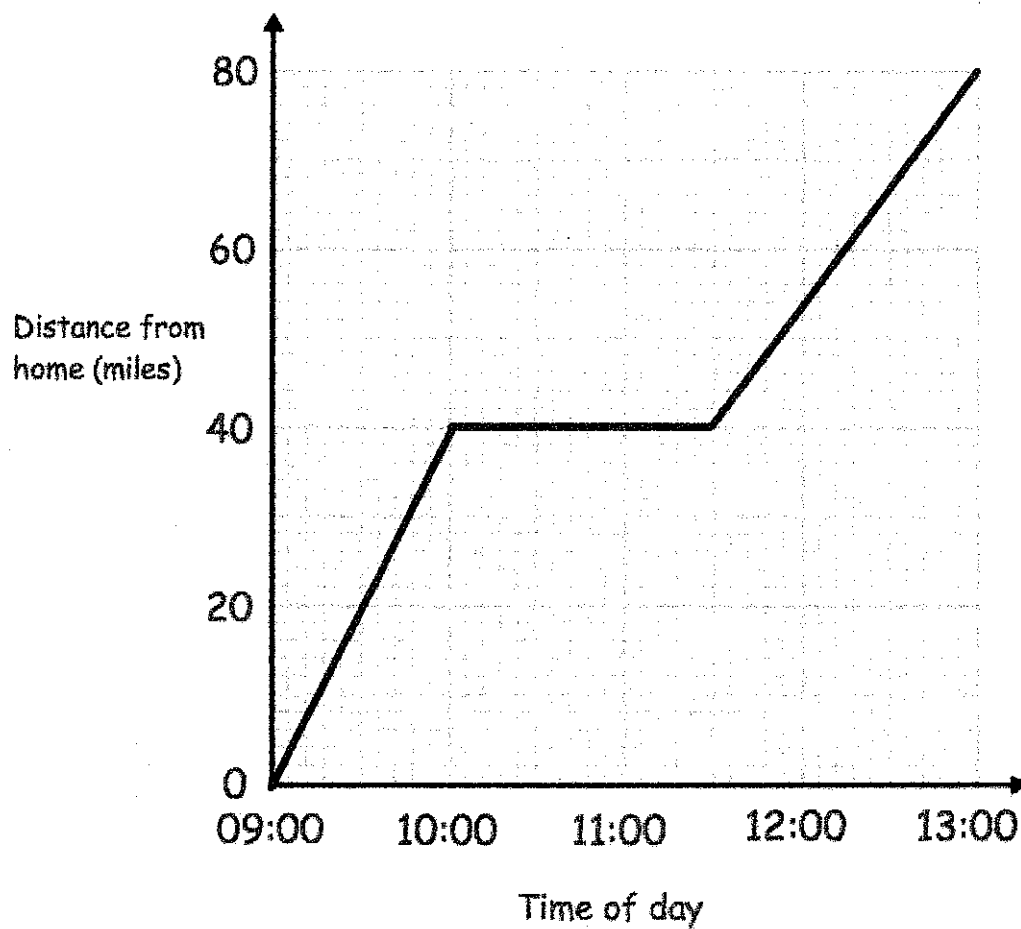1. Edward drove 80 miles from his home to London.
   He stopped and visited his friend Nicola on the way.

   Here is the distance-time graph for the journey.
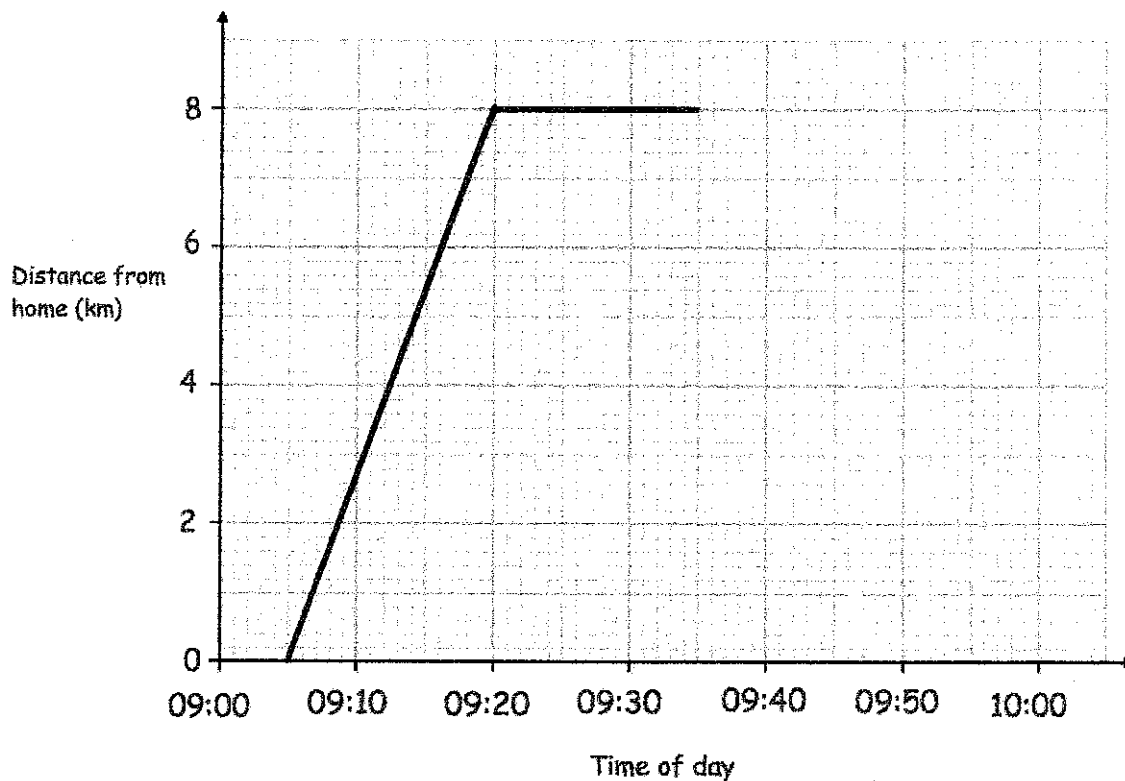

(a) How far was Edward from home when he visited Nicola?

..........................miles
(1)

(b) How long did Edward stop for?

....
(1)

2. Ellie cycled from her home to her friend's house.
   She stayed at her friend's house and then travelled home.

(a) At what time did Ellie leave home?

....
(1)

(b) How far was Ellie from home while visiting her friend?

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

(c) How long did Ellie stay at her friend's house?
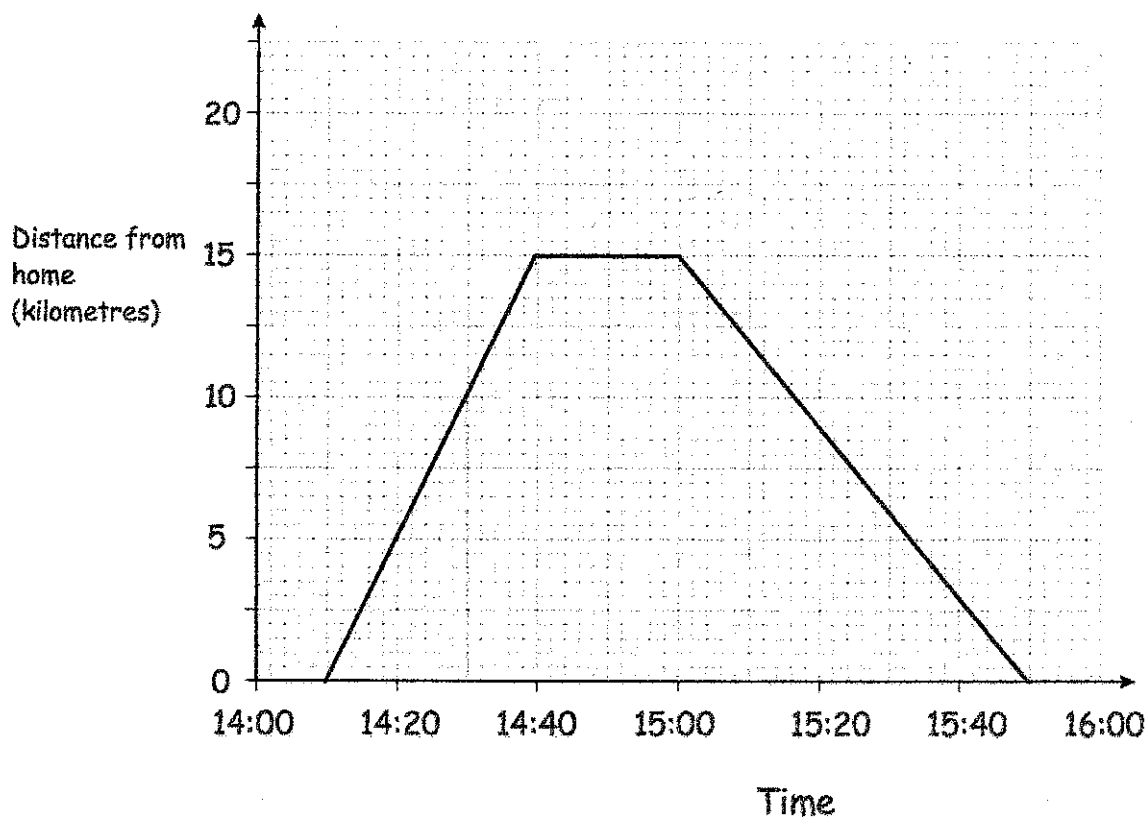
...........................minutes
(1)

Ellie arrived home at 09:55.

(d) Complete the distance-time graph.

(1)

3. Joseph travelled from his home to his friend's house 15 km away.
Joseph stayed for some time and then returns home.

Here is the distance-time graph

(a) At what time did Joseph leave home?

....

(1)

(b) How far was Joseph from home at 14:30?

..........................km

(1)

(c) How long did Joseph spend at his friend's house?

.........................minutes

(1)

(d) How far did Joseph travel in total?

.........................km

(1)

4. Anne cycles from Bristol to Salisbury.
The diagram shows the distance-time graph of her journey.
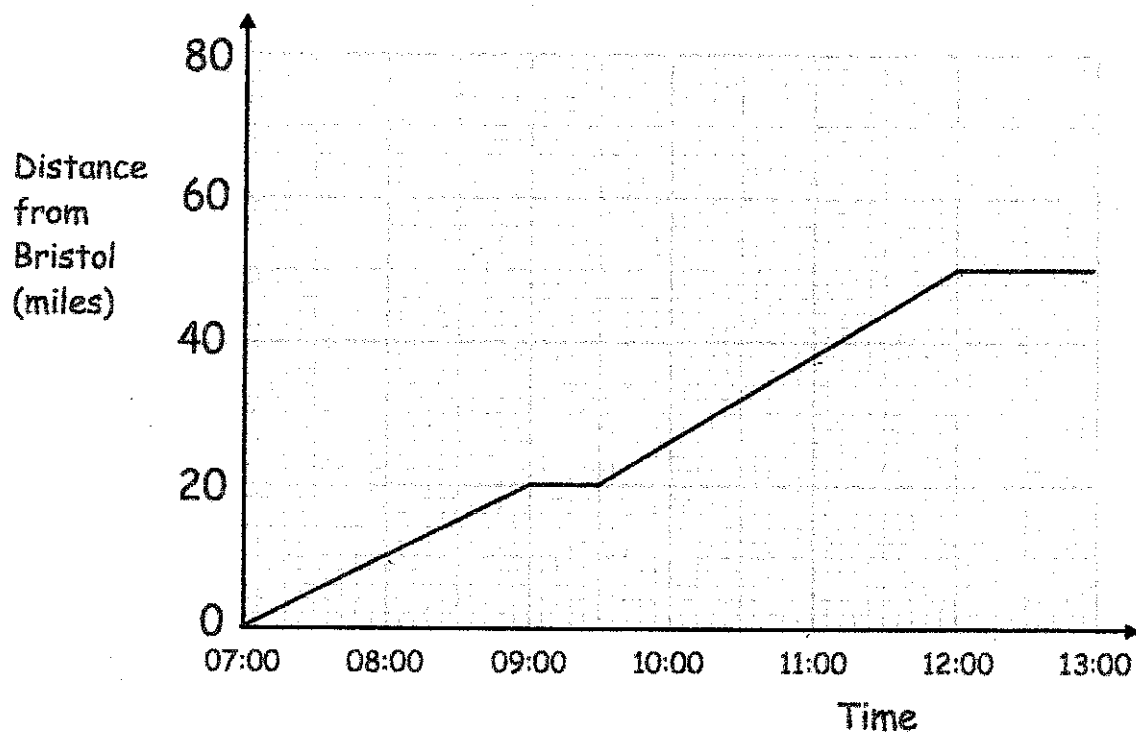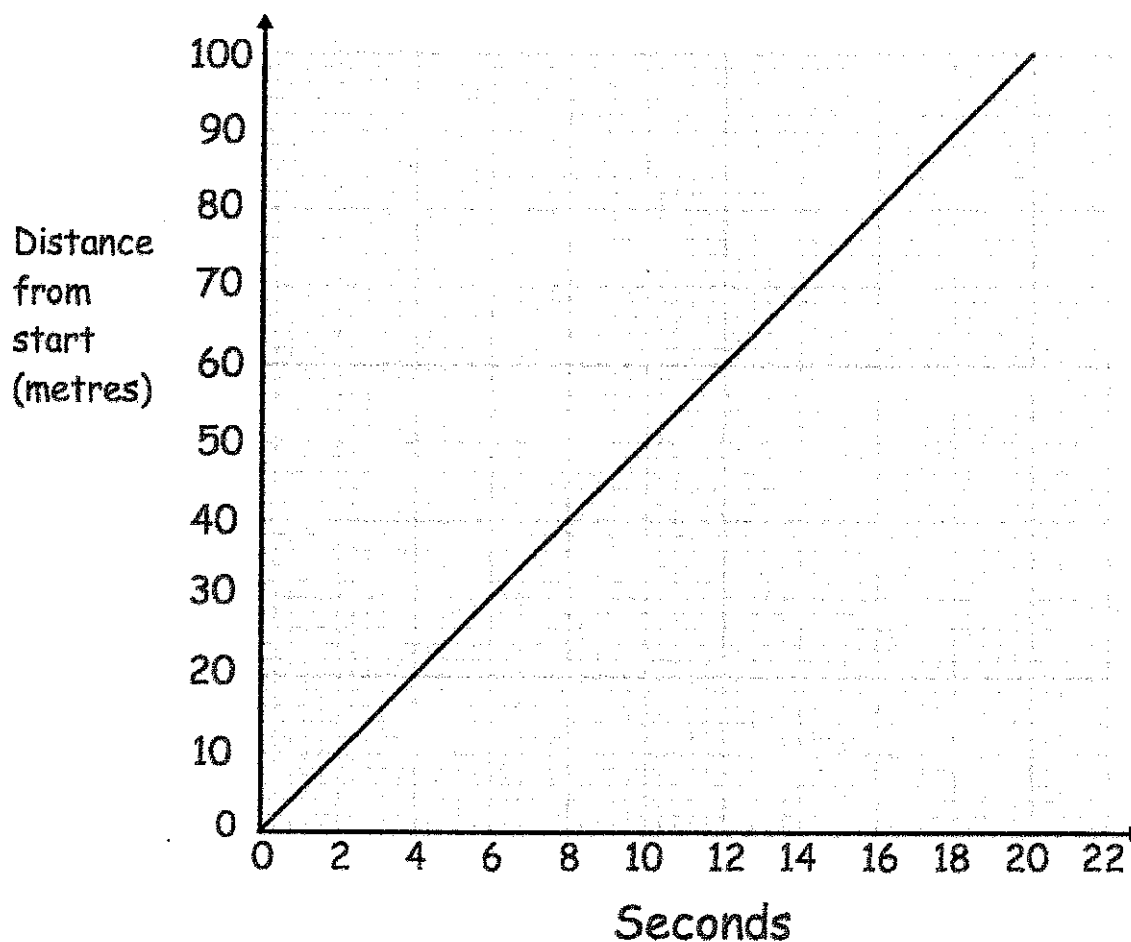

(a) How far from Bristol is Anne at 08:00?

..........................miles

(1)

(b) Describe what is happening between 09:00 and 09:30

....

(1)

(c) Work out Anne's speed for the first two hours of her journey

..........................miles per hour

(2)

5. Henry takes place in a 100 metre race.
    The diagram shows the distance-time graph of his race.

(a) How long did it take Henry to run 100 metres?

..........................seconds

(1)

(b) What is Henry's average speed over the race
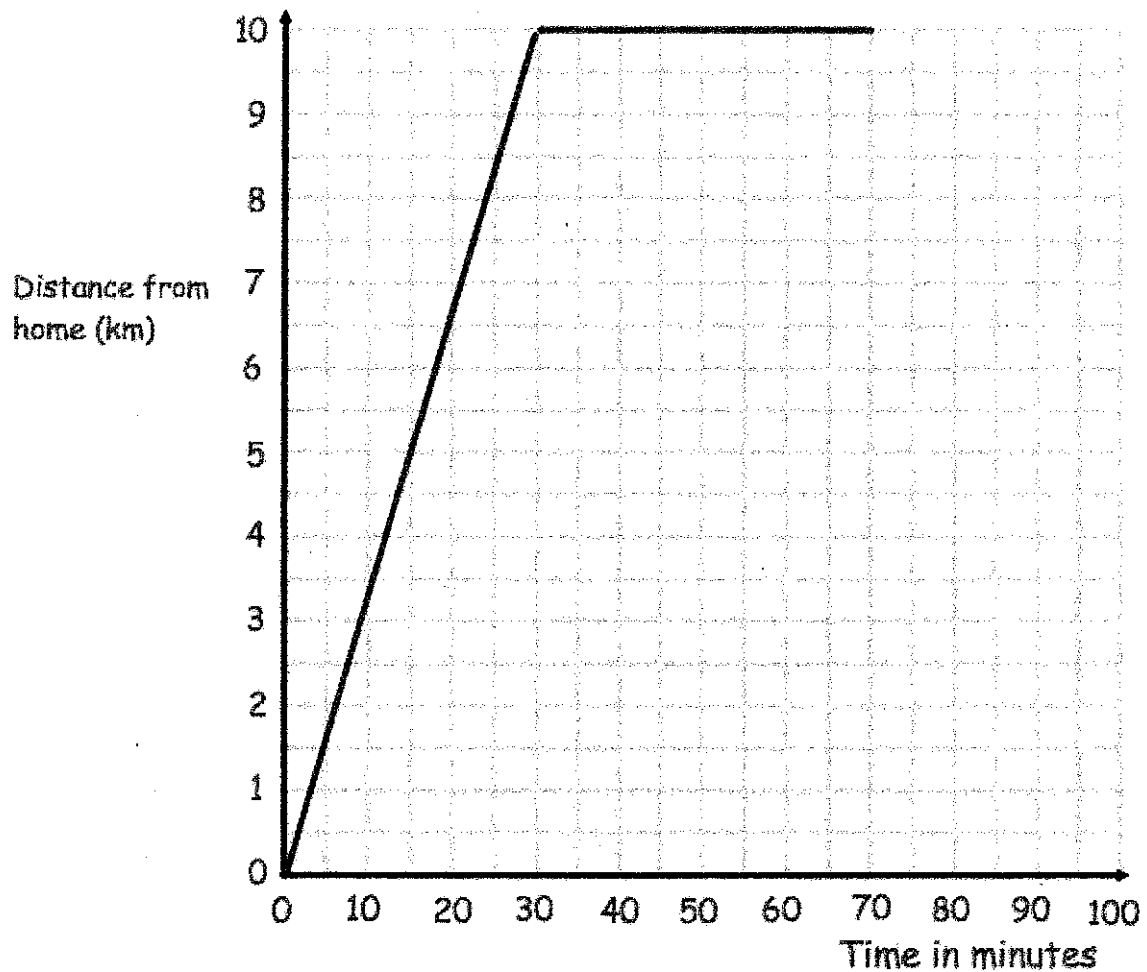
..........................metres per second

(2)

Helen completes the race in 16 seconds.

(c) Show this on the distance-time graph.

(1)

6. Here is part of a travel graph of Andrew's journey from his home to the gym and back.

(a) Work out Andrew's speed for the first 30 minutes of his journey.

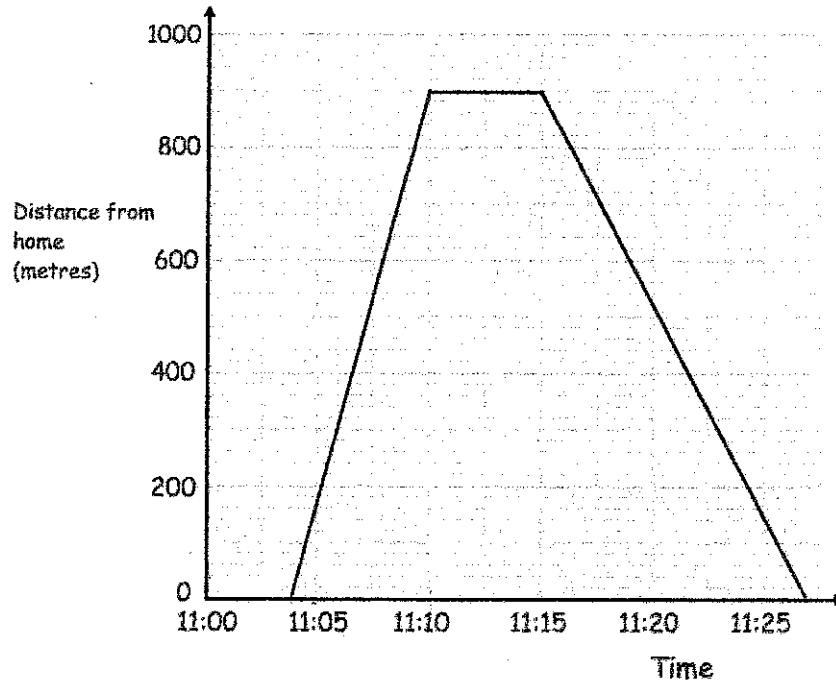..........................km/h

(2)

Andrew spends 40 minutes at the gym.
He then travels back to his home in 20 min.

(b) Complete the travel graph.

(2)

7. Rebecca rollerbladed from her home to the playground.
Rebecca rested in the playground for some time.
She then rollerbladed home.

Here is a distance-time graph of Rebecca's journey.

(a) How long did it Rebecca take to rollerblade from her home to the playground?

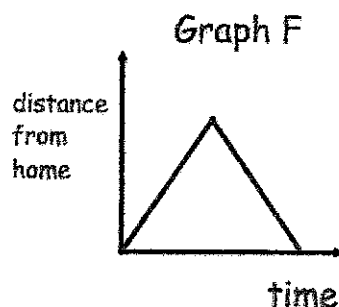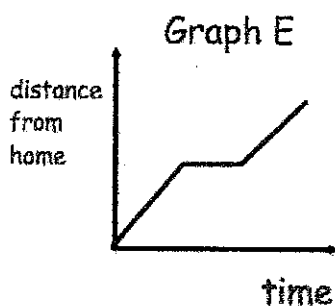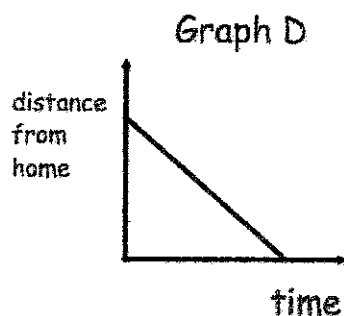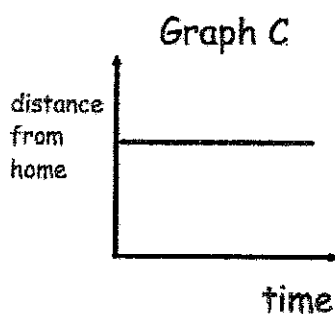..........................minutes

(1)

(b) How long did Rebecca spend resting at the park?

..........................minutes

(1)

(c) Was Rebecca's speed travelling home, faster or slower than travelling to the park? Explain your answer.

....

....

....

(1)

8.   Shown below are six distance-time graphs

Graph A

distance
from
home

time

Graph B

distance
from
home

time

Graph C

distance
from
home

time

Graph D

distance
from
home

time

Graph E

distance
from
home

time

Graph F

distance
from
home

time
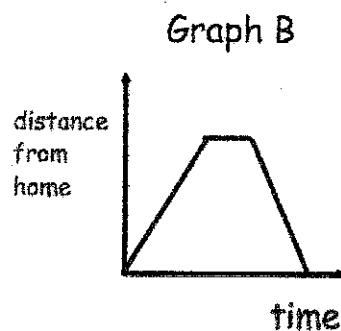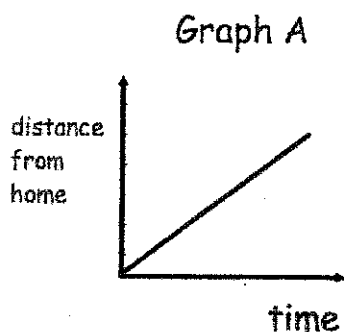
Each sentence in the table describes one of the graphs.
Write the letter of the correct graph next to each sentence.

Mr.Jones travels to work and immediately returns	F
Mr.Jones leaves work and travels home at a steady speed	
Mr.Jones leaves home and travels to work at a steady speed	
Mr.Jones stays at work	
Mr.Jones travels to work, stays there for some time and then returns home	
Mr.Jones leaves home and travels to work, stopping at the shop on the way	

(3)

9.   Here is a distance-time graph for a train journey

Distance (miles)

Time (minutes)
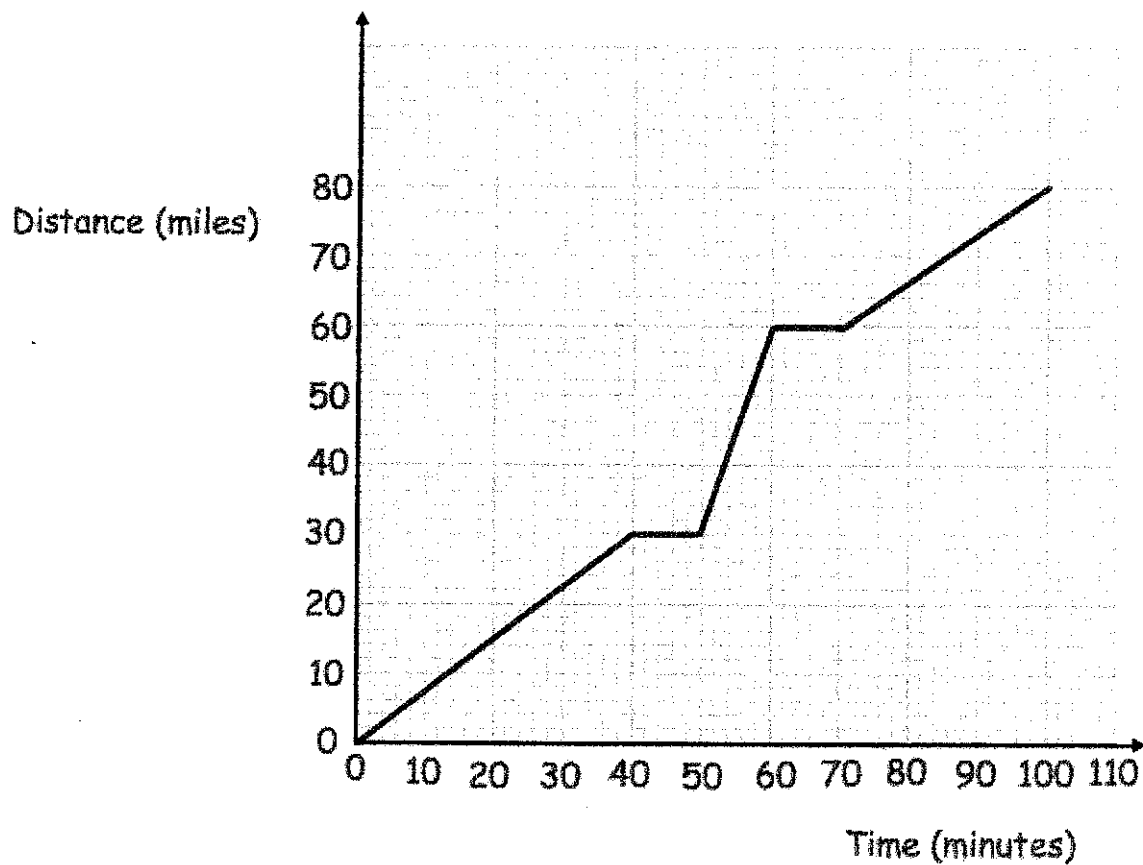
(a) Calculate the speed of the train on the last section of the journey, from 70 to 100 minutes.

..............................miles per hour

(2)

(b) Circle the part of the journey that the train travels fastest.

(1)

(c) Explain your answer

....

....

(1)