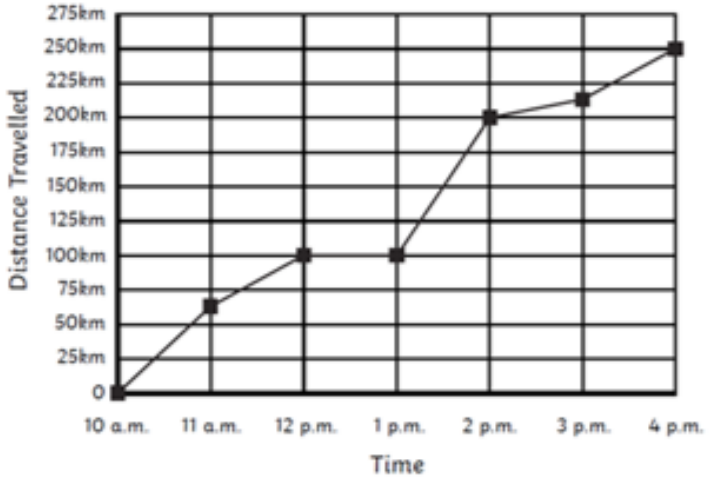
you do

Here is a line graph to show the journey the Lewis family made when they were visiting their grandmother.



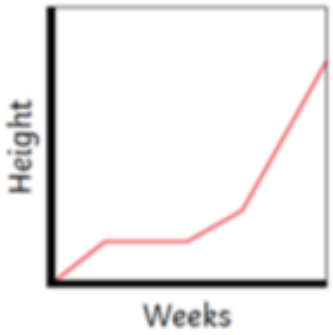
Between which times do you think the following happened? Explain why you think this.

a) The family stopped for lunch.
b) The family travelled on the motorway.
c) The family were caught in slow moving traffic

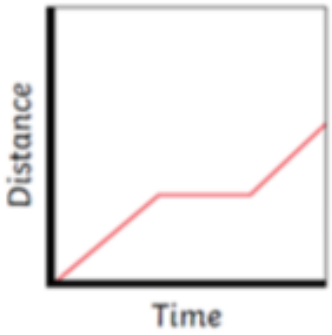
You have **15 minutes** to complete Friday's tasks.

Here are three line graphs. Write a story for each graph.

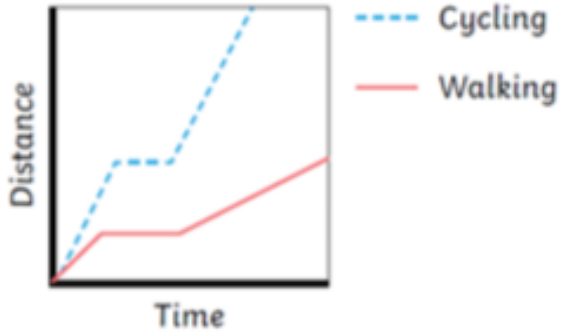
a)



b)



c)



we do

Pink Highlighters
ready.....let's mark!



1) a) **Between 12 p.m. and 1 p.m. the family stopped for lunch. There was no distance covered during this time meaning the family had stopped.**

b) **Between 1 p.m. and 2 p.m. the family travelled on a motorway. This is the time that the most distance was covered in an hour, indicating that they were travelling faster which they can do on a motorway.**

c) **Between 2 p.m. and 3 p.m. the family were caught in slow moving traffic. The family only travelled about 12.5km during this time, suggesting they were moving slowly.**

2)

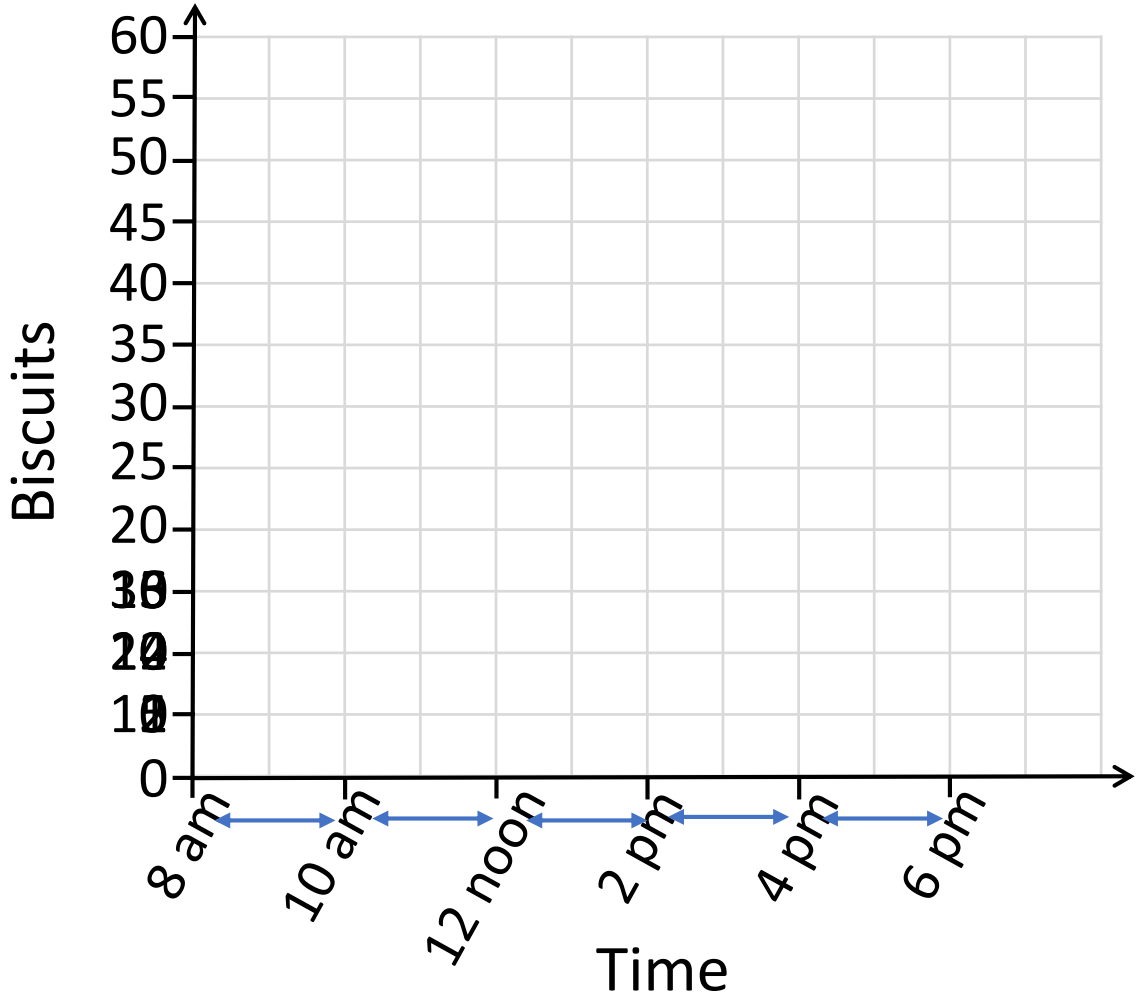
a) Multiple answers possible, such as:	b) Multiple answers possible, such as:	c) Multiple answers possible, such as:
The graph shows the growth in height of a puppy. For the first few weeks, the puppy grew steadily. Then, there were a few weeks where the puppy's height remained the same. The last few weeks, the puppy had a growth spurt.	The graph shows the journey from school to the seaside. When the journey started, they travelled at a constant speed and covered more than half of the distance. They then stopped for lunch for an hour. After that, they completed the last part of the journey at a constant speed.	Two friends set off from school to their own homes, one on a bicycle, the other walking. The friend who travelled by bicycle lived further away from school. They both stopped at a shop for some time before completing their journey home.

Extend Page

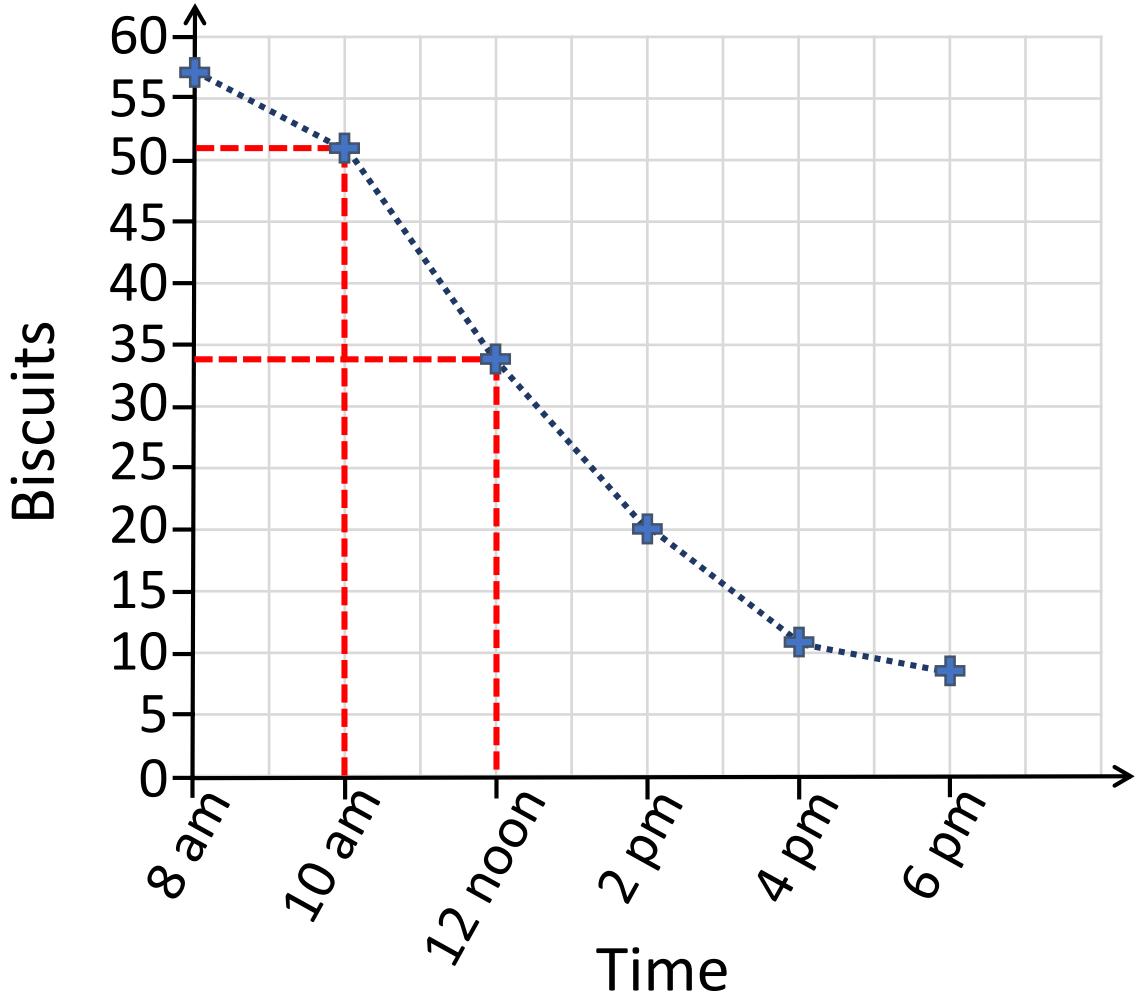
DRAW LINE GRAPHS

White Rose Maths

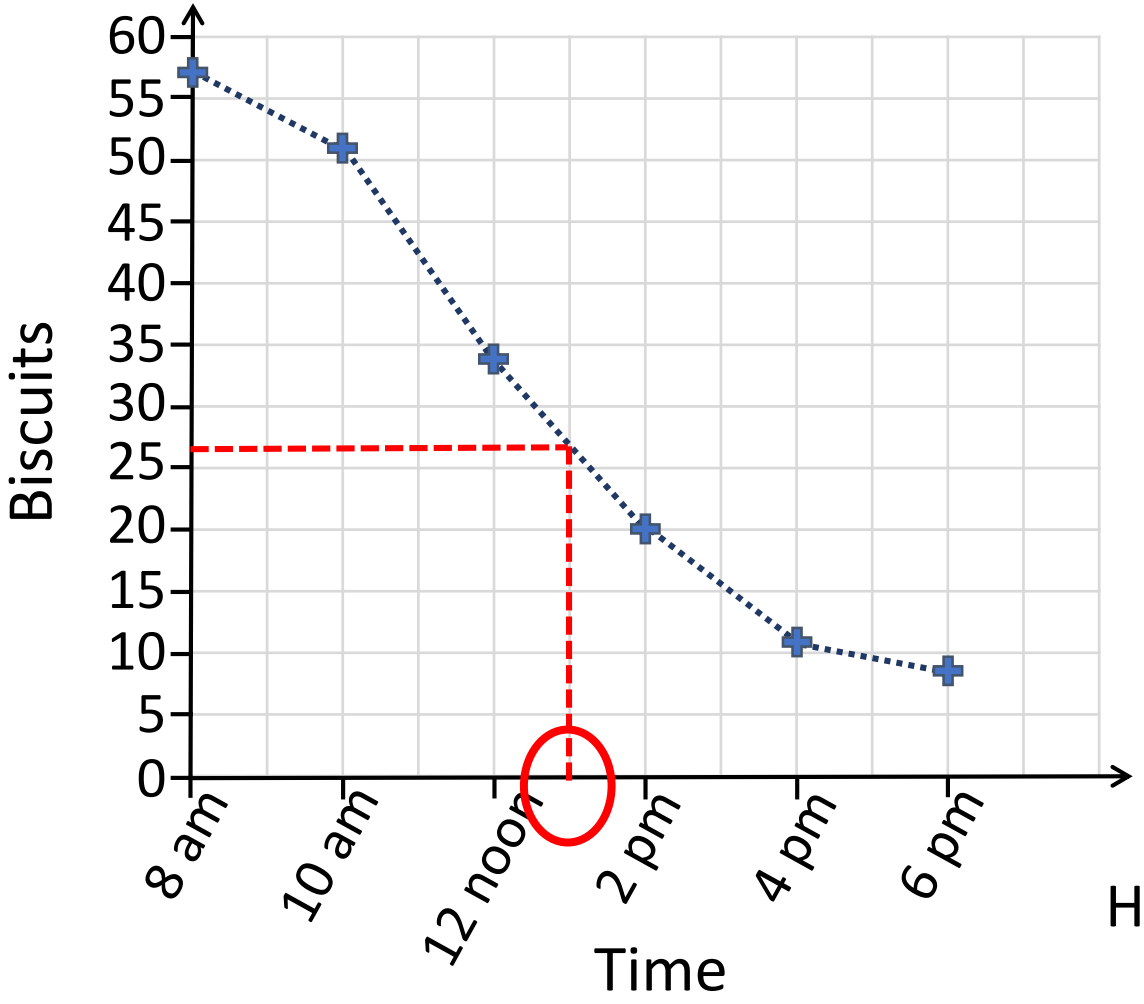
Time	8 am	10 am	12 noon	2 pm	4 pm	6 pm
Biscuits in staff room	57	51	34	20	11	8



Time	8 am	10 am	12 noon	2 pm	4 pm	6 pm
Biscuits in staff room	57	51	34	20	11	8



Time	8 am	10 am	12 noon	2 pm	4 pm	6 pm
Biscuits in staff room	57	51	34	20	11	8



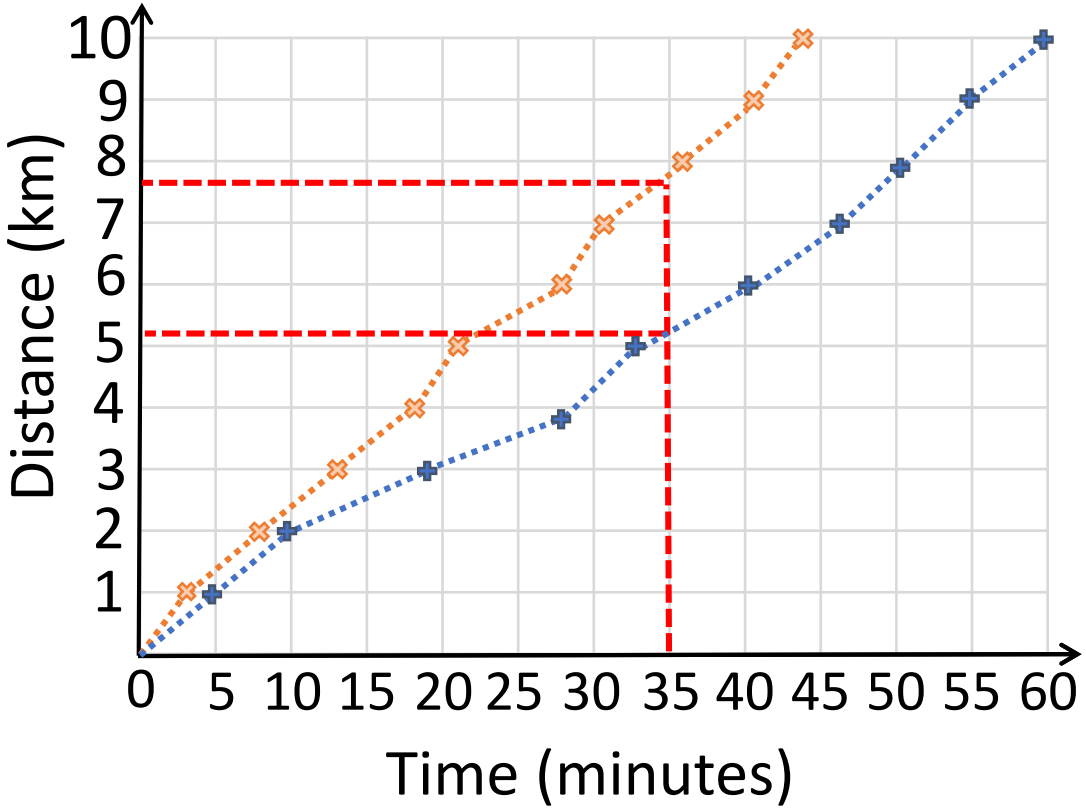
Estimate the number of biscuits at 1 pm.

26 biscuits.

Have a think

Mo's run

Time (minutes)	4	8	13	18	22	27	31	36	41	44
Distance (km)	1	2	3	4	5	6	7	8	9	10



..... = Alex

..... = Mo

After 35 minutes, how much further has Mo run than Alex? 2.7 km

Have a think

Mo = 7.8 km Alex = 5.1 km 7.8 – 5.1 = 2.7 km

YOUR TURN

Complete the water tank question.

The table shows the amount of water in 2 tanks during a day.

Time	Water in tank 1 (litres)	Water in tank 2 (litres)
6:00 pm	3,000	2,500
9:00 pm	3,500	3,100
midnight	4,250	4,000
3:00 am	5,500	5,100
6:00 am	6,000	5,800
9:00 am	2,000	3,100
noon	2,250	2,500
3:00 pm	2,750	2,900

Draw a line graph to represent the information.



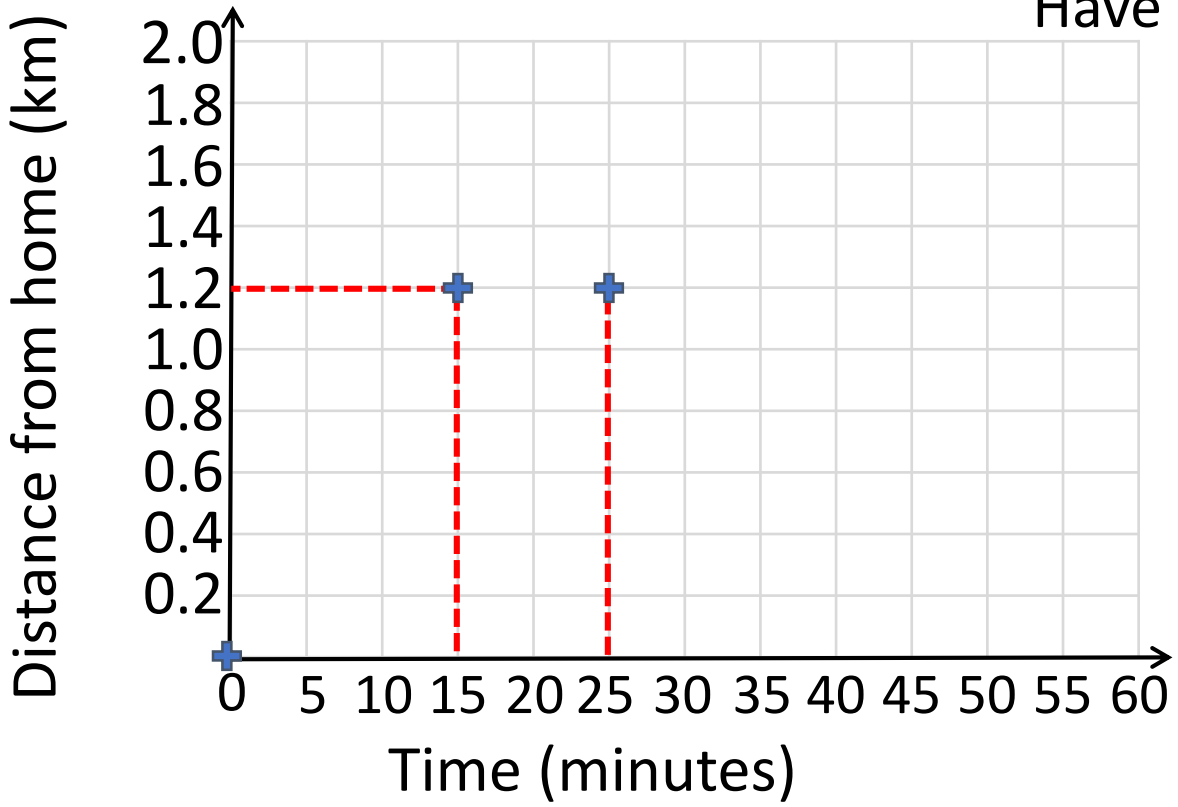
White Rose Maths

Whitney leaves her home and starts walking at a steady pace.

After 15 minutes, Whitney has walked 1,200 metres.

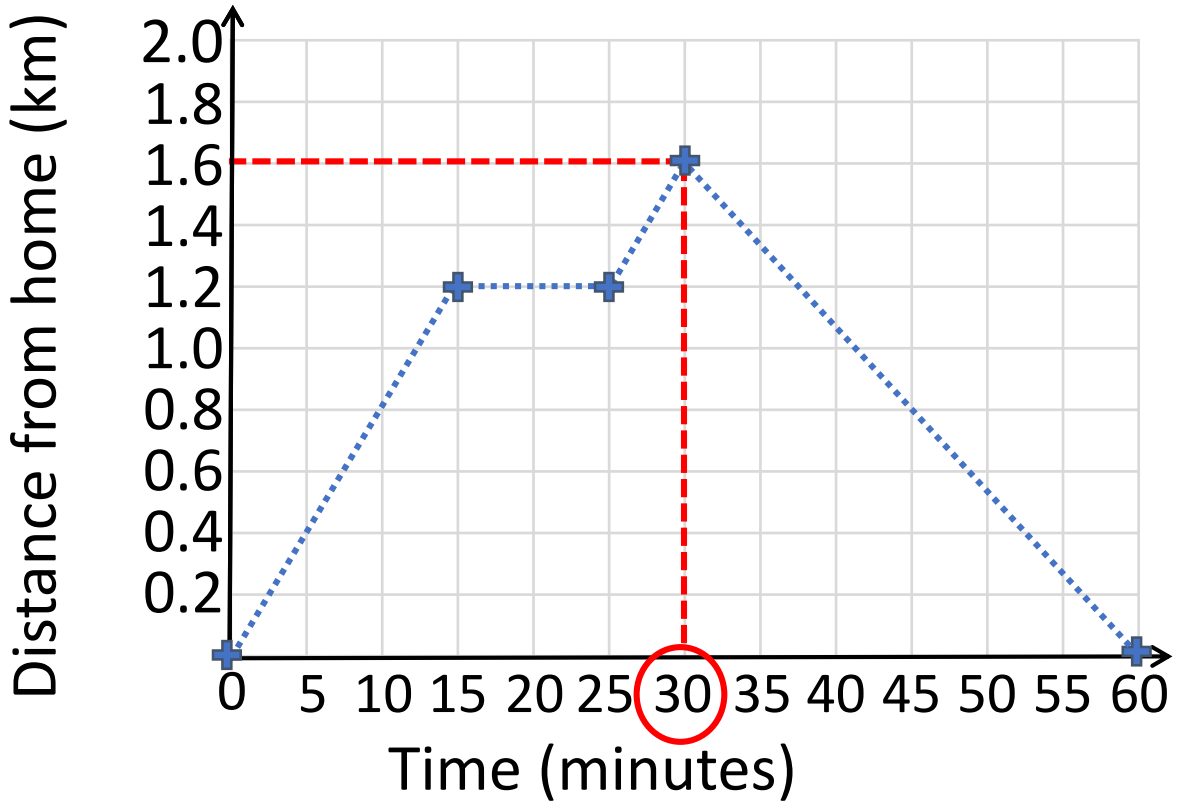
Whitney sees her friend Ron and they stand and talk for 10 minutes.

Have a think



Whitney continues to walk for another 0.4 kilometres.
This takes her 5 minutes.

For the next 30 minutes Whitney is walking at a steady pace back home.



$1.2 + 0.4$

YOUR TURN

Complete the hot air balloon question.

The height of a hot air balloon is recorded over 60 minutes.

- The hot air balloon starts from the ground at 0 minutes and rises at a steady rate.
- After 15 minutes the hot air balloon is 500 m above the ground.
- It stays at this height for 10 minutes.
- The hot air balloon then gradually rises to 750 m over the next 15 minutes.
- It stays at this height for 10 minutes.
- For the remainder of the time, the hot air balloon gradually returns to the ground.

Draw the graph of the hot air balloon's journey.



White Rose Maths