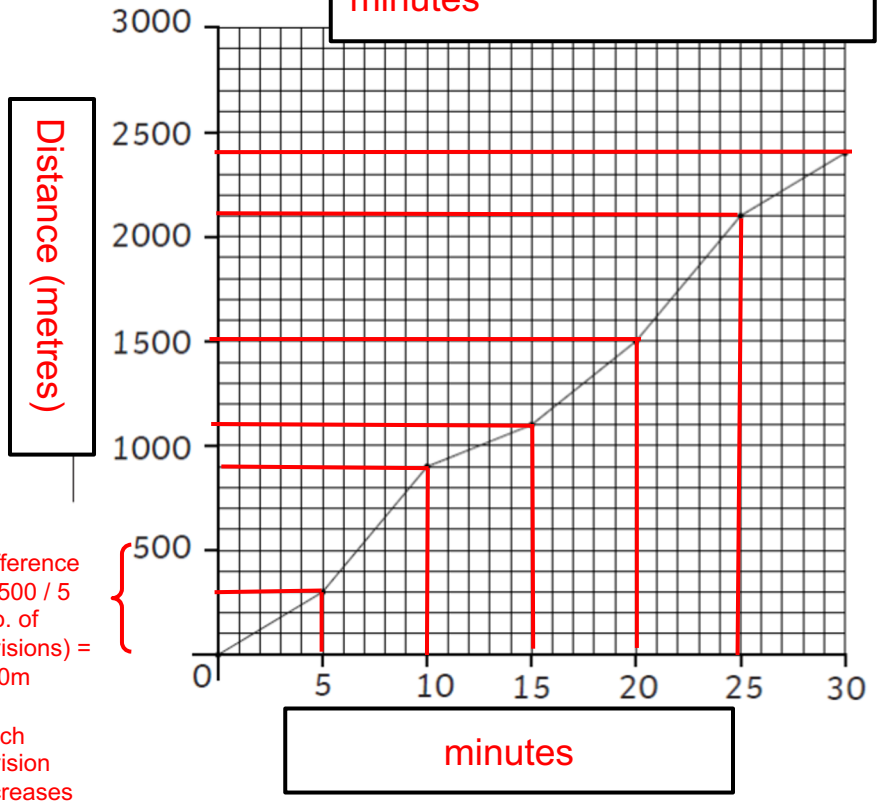
A Line Graph to Show

how far a class walked in 30 minutes



Difference of 500 / 5 (no. of divisions) = 100m

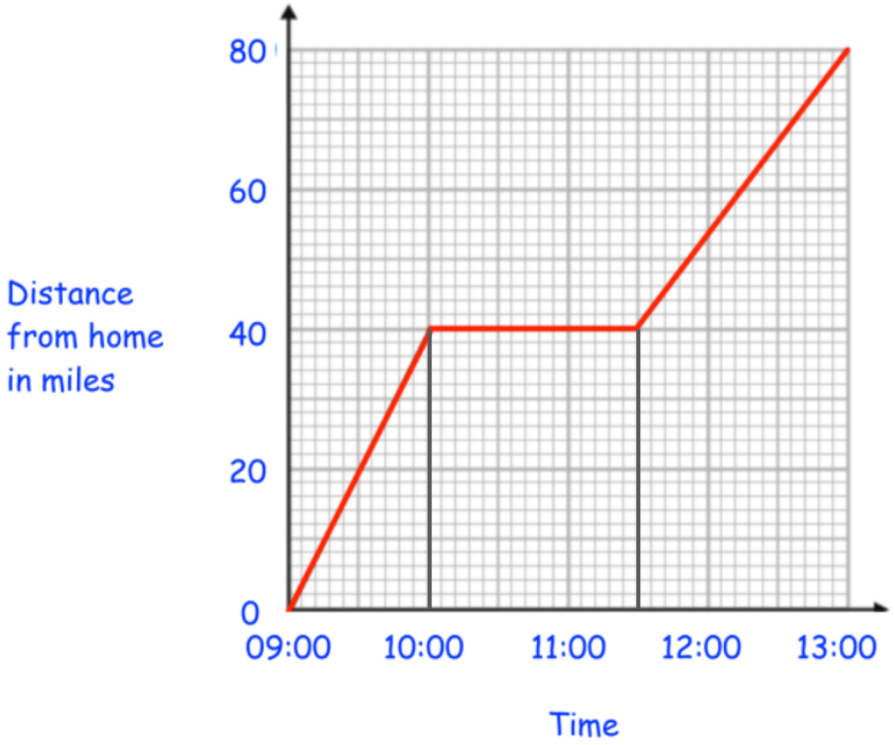
Each division increases by 100m.

1) This line graph shows how far a class walked over half an hour, in metres. Add a title and label the axes.

2) Use the graph to complete the table.

Time in Minutes	Distance in Metres
5	300m
10	900m
15	1100m
20	1500m
25	2100m
30	2400m

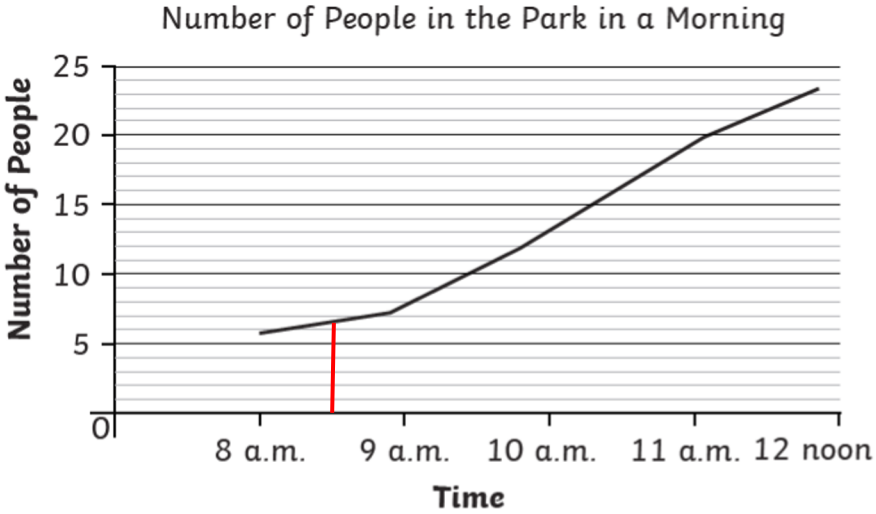
Natalie travels from her home to London.



She stopped and visited her friend Edward on the way.

How far was Natalie from home when she visited Edward?
Answer **40 miles**

How long did Natalie stop for?
Answer: **1 hour 30 minutes**



This graph shows the number of people walking through the park one morning.

1) Between which times did the visitor numbers increase the most? _____

9am to 11am where it is steepest

2) Lucy said, "The number of visitors at 8:30 a.m. was 6 and a half." Why is Lucy wrong?

You can't have half a person. It's closest to 7 so you have to round up.

3) Is there a better way of displaying this data to avoid a mistake like this one?

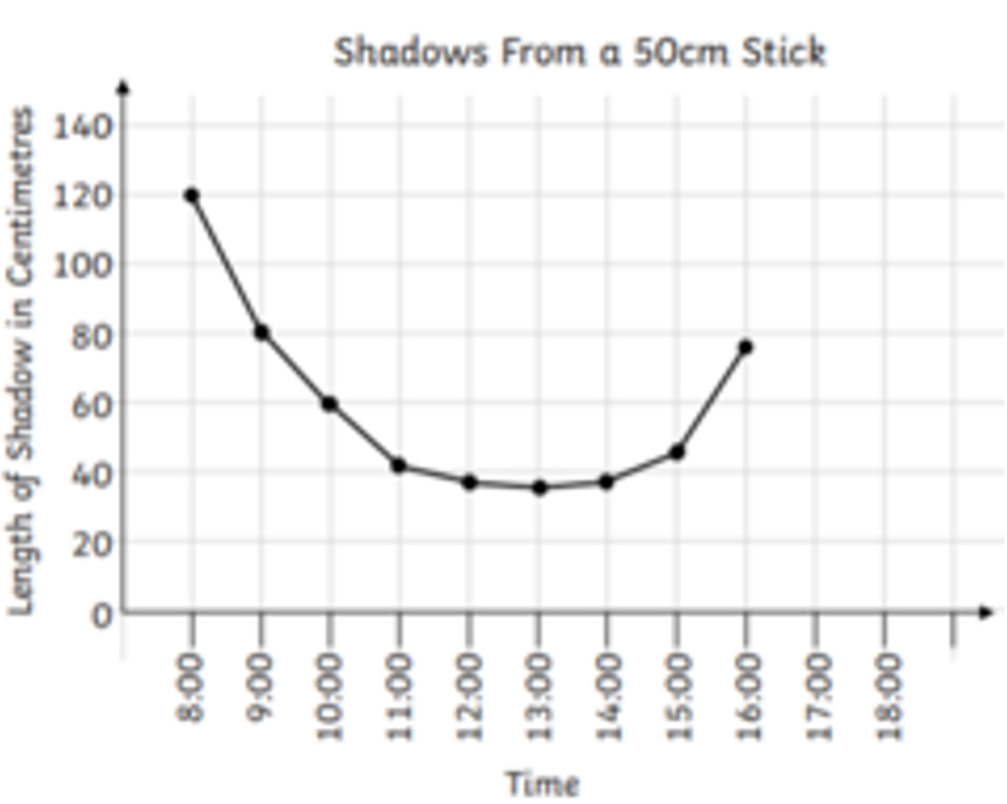
Bar chart would be better.

4) Will said, "I know that only 1 person arrived at the park between 8 a.m. and 9 a.m." Is he correct?

Yes

What other explanations for the change in number of visitors are there?

Each sentence is a possible answer:
Between 9 and 10 am, there were 6 more people.
Between 10 and 11am, there were 6 more people.
Between 11am and 12pm, there were 4 more people.

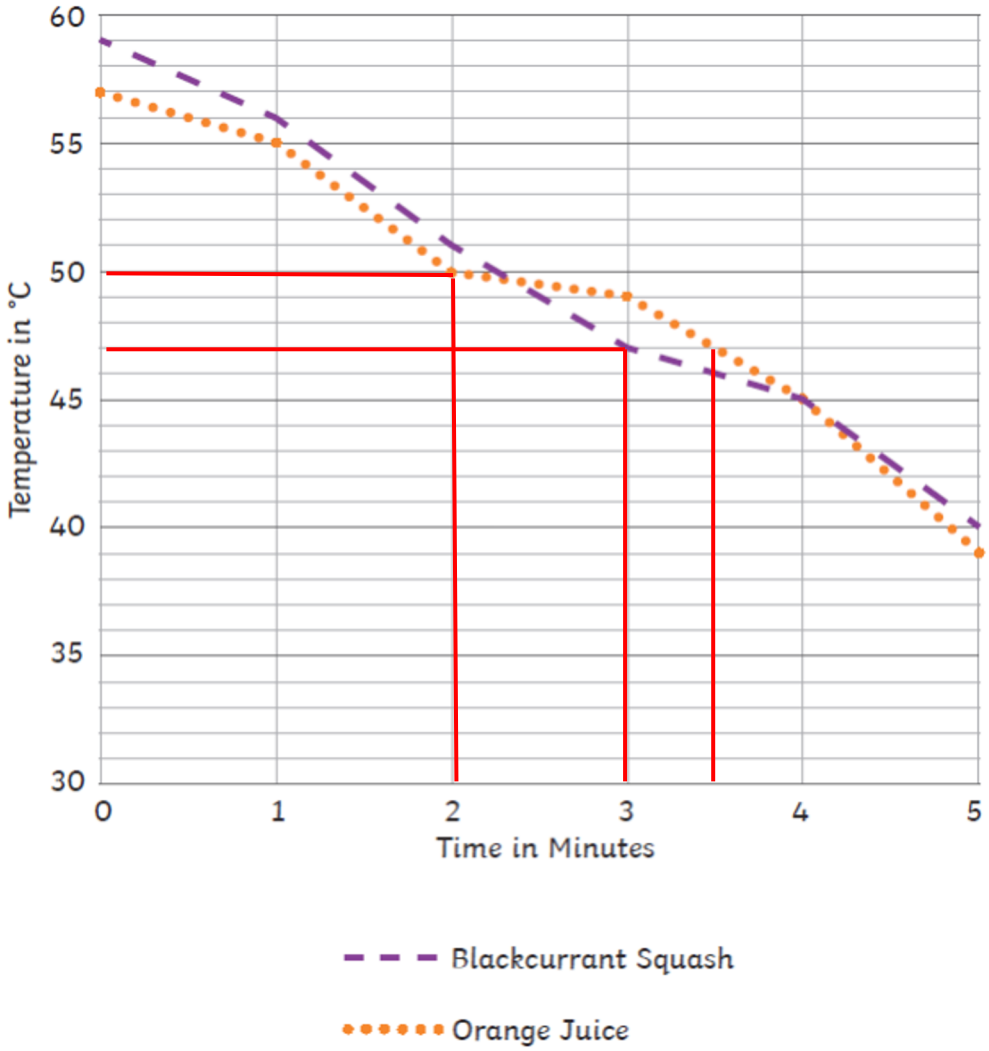


When was the shadow shortest?
Answer: **13:00**

What was the difference between the shortest and the longest shadow?
Answer: **120 -38 = 82cm**

By how much did the shadow change between 8:00am and 10:00am?
Answer: **By 60cm**

What time would you expect the shadow to be 120 cm again?
Answer: **Roughly 17:00**



Class 5 are investigating how quickly two different liquids cool over five minutes. They start their investigation by warming the two liquids in the microwave and then measure the temperature of each liquid every minute as they cool down.

What was the temperature of the orange juice after 2 minutes? Answer: **50ºC**

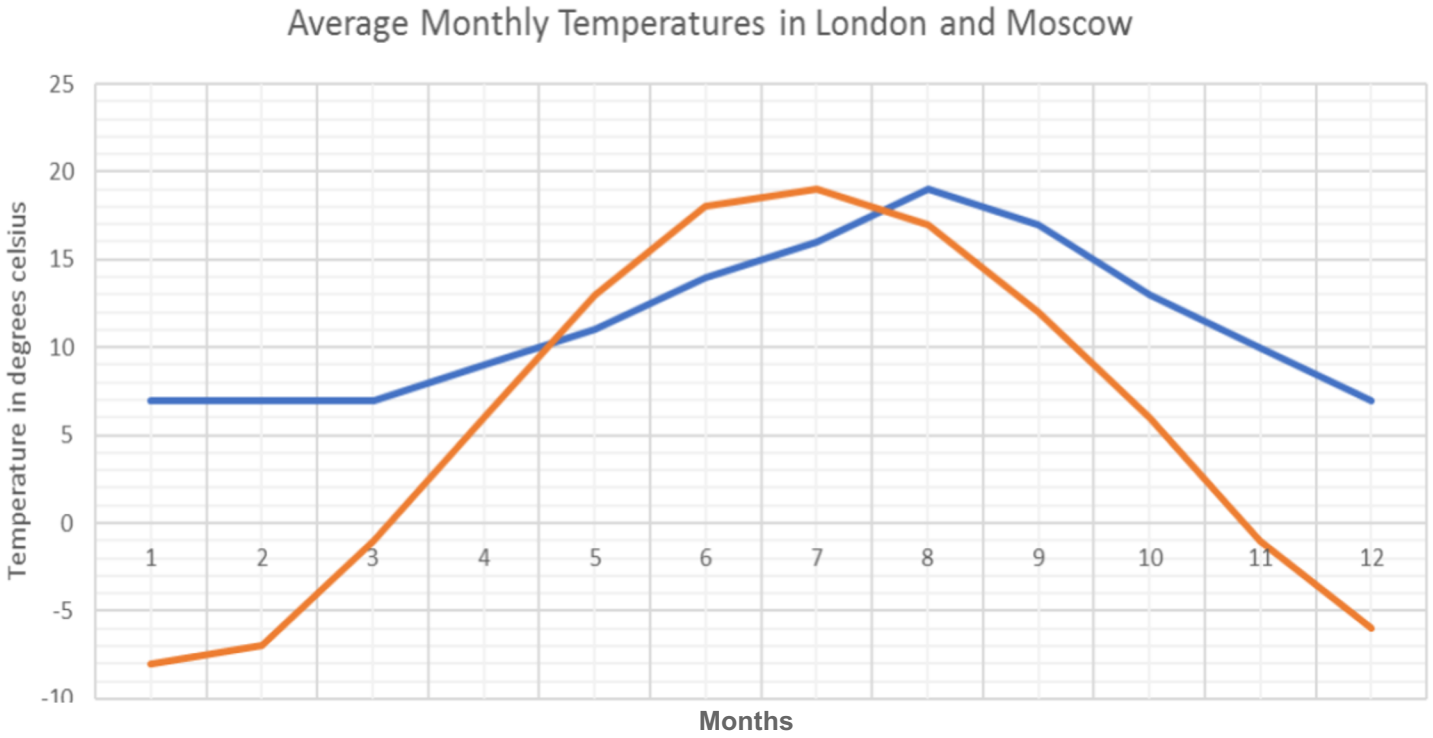
At which minute was the temperature of the blackcurrant squash 47°C? Answer: **3 minutes**

By how many degrees did the temperature of the orange juice fall from minute 1 to minute 2? Answer**: 5ºC**

By how many degrees did the temperature of the blackcurrant squash cool from minute 3 to minute 4? Answer: **2ºC**

Approximately, how long did it take for the temperature of the orange juice to fall by 10°C?
Answer: **3 and ½ minutes**

By how many degrees did the temperature of the blackcurrant squash cool altogether? Answer: **9ºC**



Cities **BLUE London** **ORANGE Moscow**

1) What was the lowest temperature recorded in Moscow?
Answer: **-8ºC**

2) What was the highest temperature recorded in London?
Answer: **19ºC**

3) In February, how much warmer was London than Moscow?
Answer: **14ºC**

4) What was the difference between London in August and Moscow in December?
Answer: **19- -6 = 25ºC**