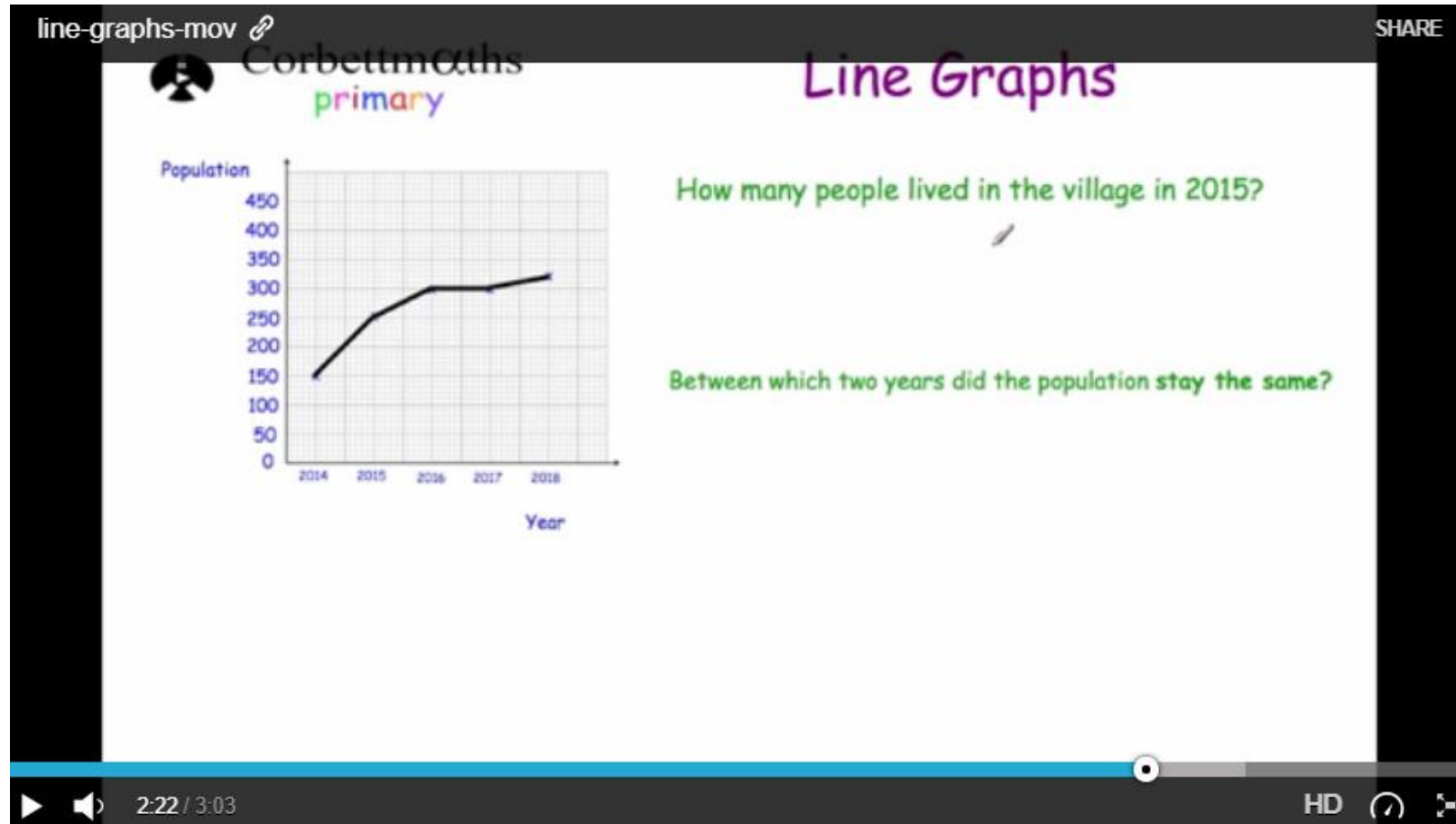


## Lesson 2

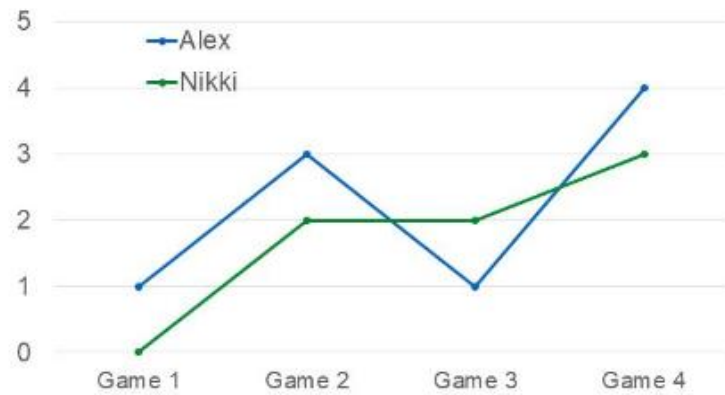
**L.O: I am learning to use line graphs to solve problems.**

# A helpful revision video



<https://corbettmathsprimary.com/2018/07/19/line-graphs-video/>

Alex and Nikki were playing football, which game did Nikki win?



A

Game 1

B

Game 2

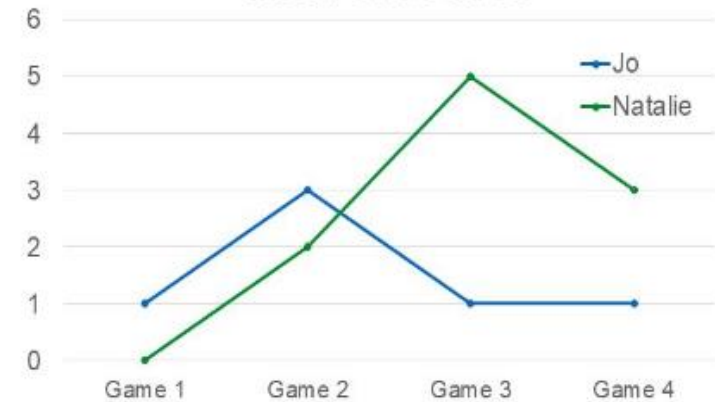
C

Game 3

D

Game 4

Jo and Natalie were playing football, which game had a goal difference of 2?



A

Game 1

B

Game 2

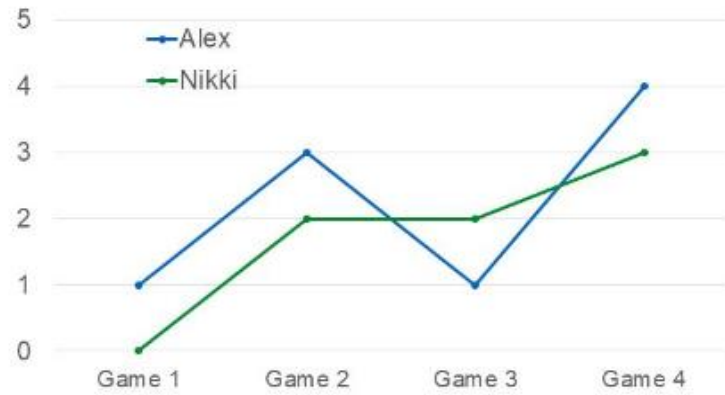
C

Game 3

D

Game 4

Alex and Nikki were playing football, which game did Nikki win?



A

Game 1

B

Game 2

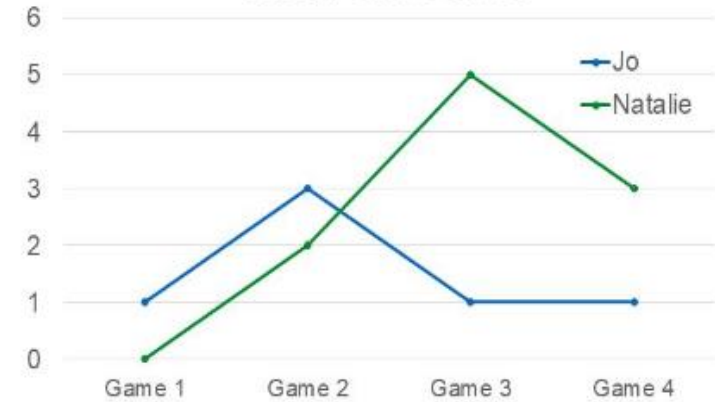
C

Game 3

D

Game 4

Jo and Natalie were playing football, which game had a goal difference of 2?



A

Game 1

B

Game 2

C

Game 3

D

Game 4

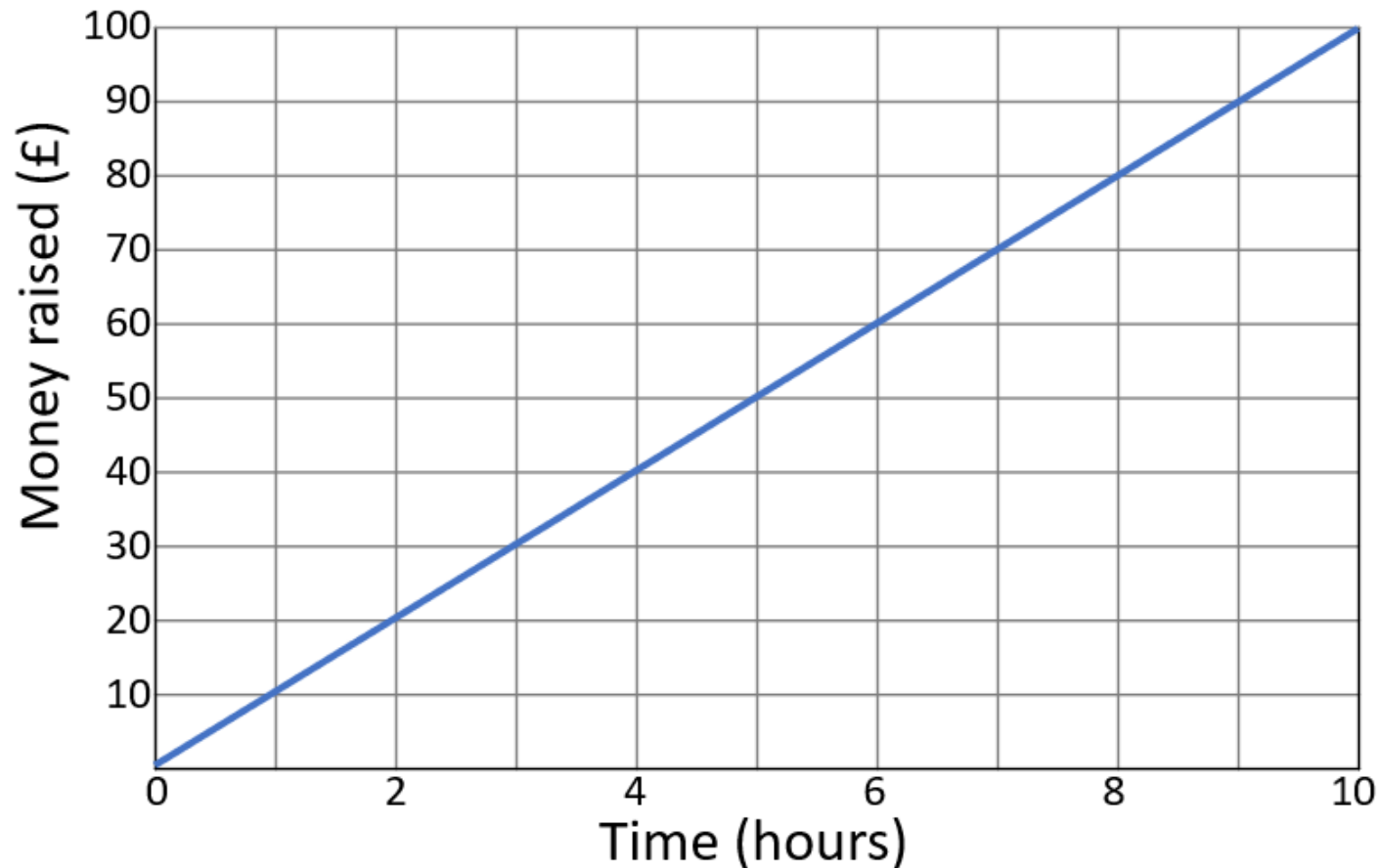
Answers



# Starter

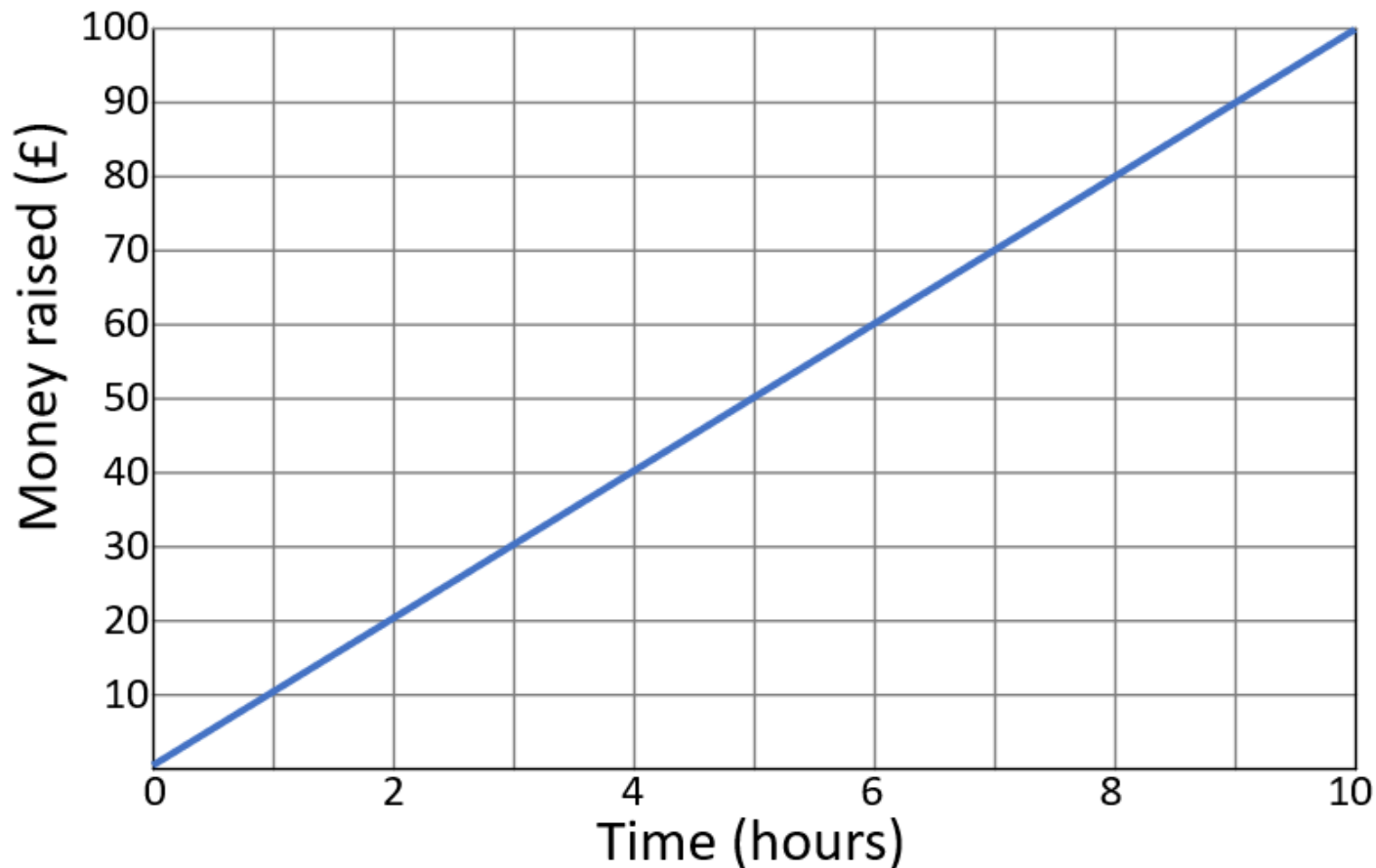
This graph shows how much money was raised over a 10 hour period during a charity event.

Can you think of 3 questions we can answer based on this line graph?





# Possible answers

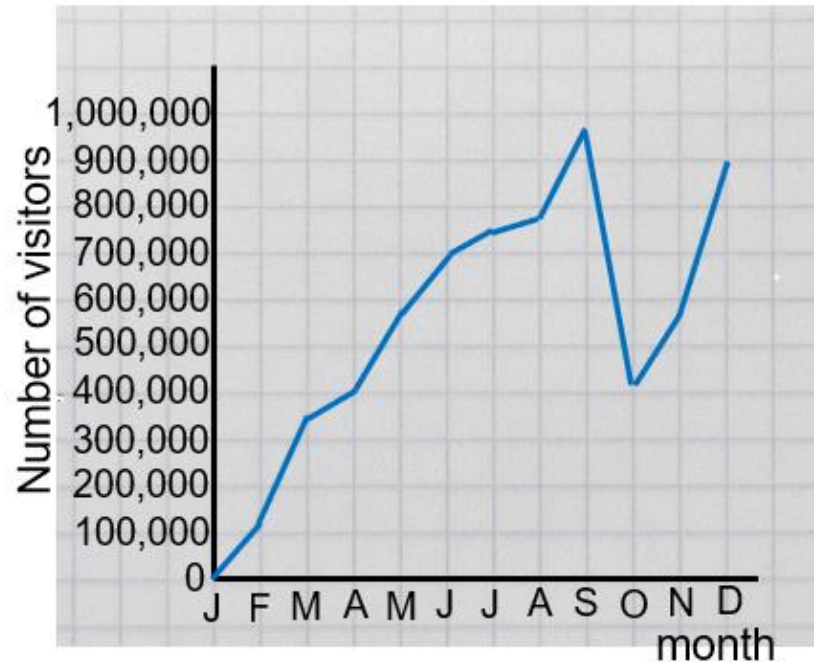


- How much money was raised in total?
- How much money was raised in the first 4 hours?
- How long did it take to raise £50?
- How much more money was raised after 9 hours than after 3 hours?
- If the event carried on for another 2 hours, how much more money might have been raised?



# Line Graphs

This line graph shows the number of visitors to a new interactive Science Museum across its first year.



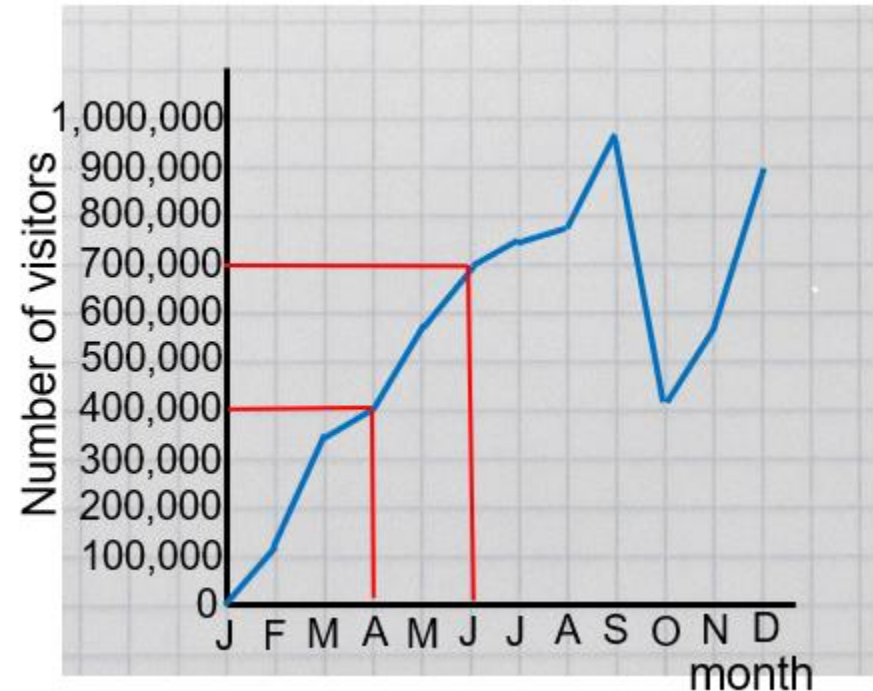
Which month had 300,000 more visitors than April?  
How did you work this out?

# Answers

This line graph shows the number of visitors to a new interactive Science Museum across its first year.



Which month had 300,000 more visitors than April?  
How did you work this out?



June had 300,00 more visitors than April.  
See the red lines on the graph to show how we know.





# Line Graphs

This line graph shows the number of visitors to a new interactive Science Museum across its first year.



When did the Science Museum attract more than 850,000 visitors?

How would you show this on the graph?

# Answers

This line graph shows the number of visitors to a new interactive Science Museum across its first year.



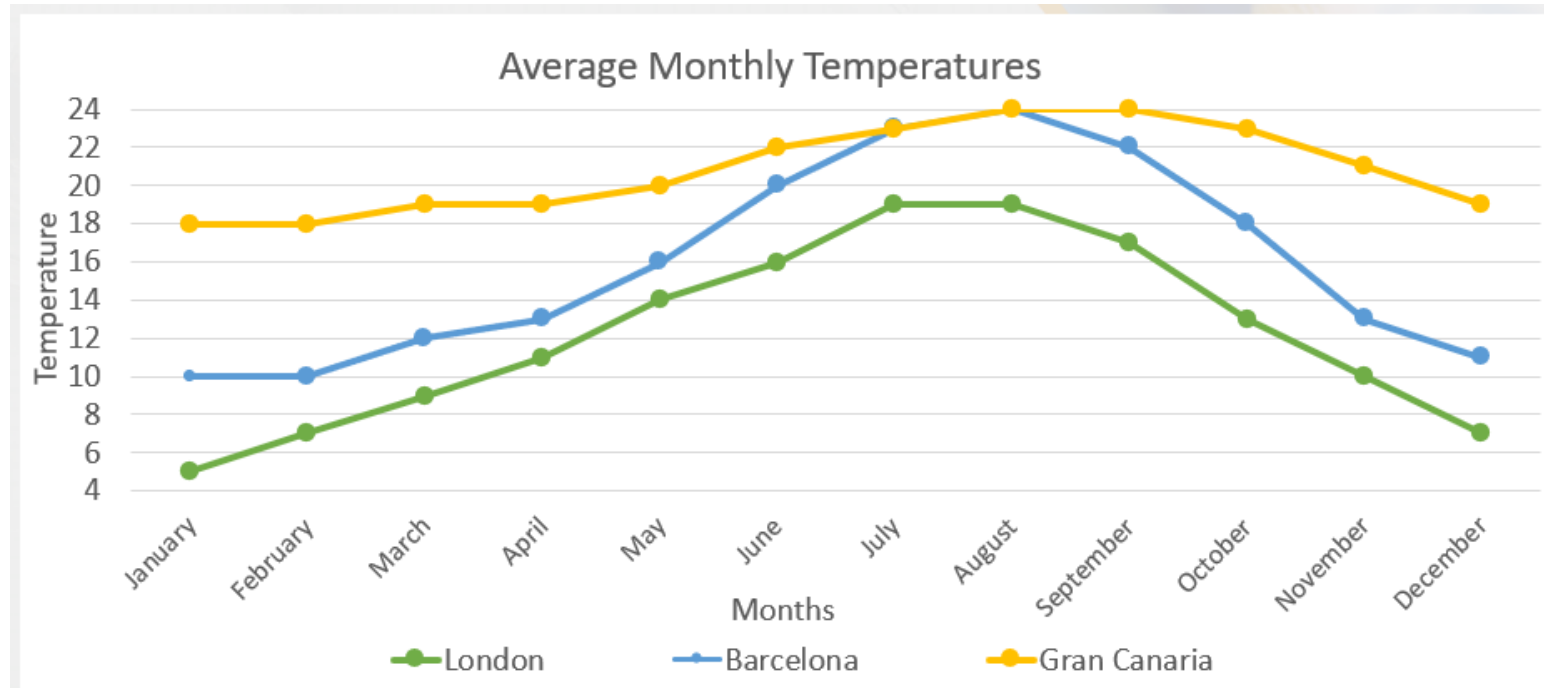
When did the Science Museum attract more than 850,000 visitors?

How would you show this on the graph?

Telling the story from the graph, September and December are both above the red line that shows at least 850,000. So, we could argue that the end of August and the end of November are also above the red line.

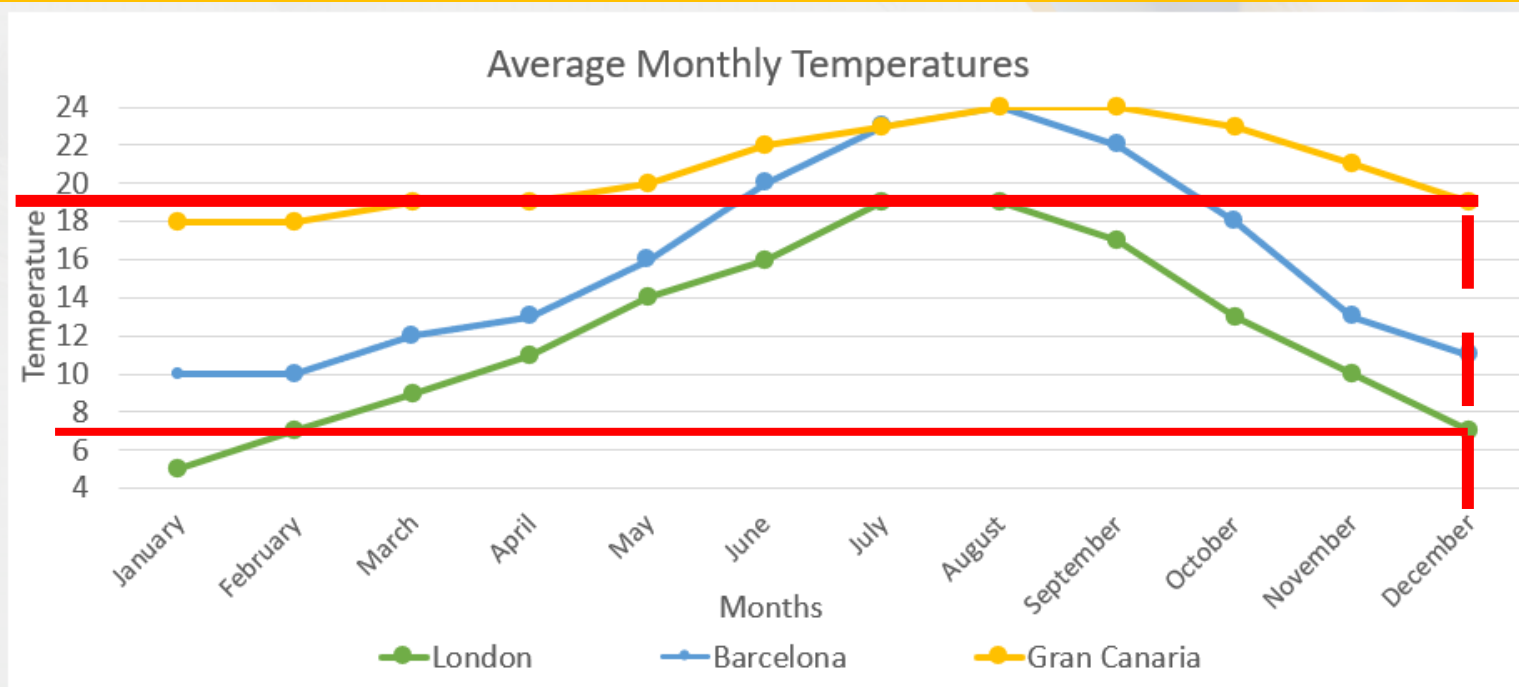


# Line Graphs: Fluency



How much hotter is it in Gran Canaria than in London in December?

# Fluency Answers



How much hotter is it in Gran Canaria than in London in December?

12°C

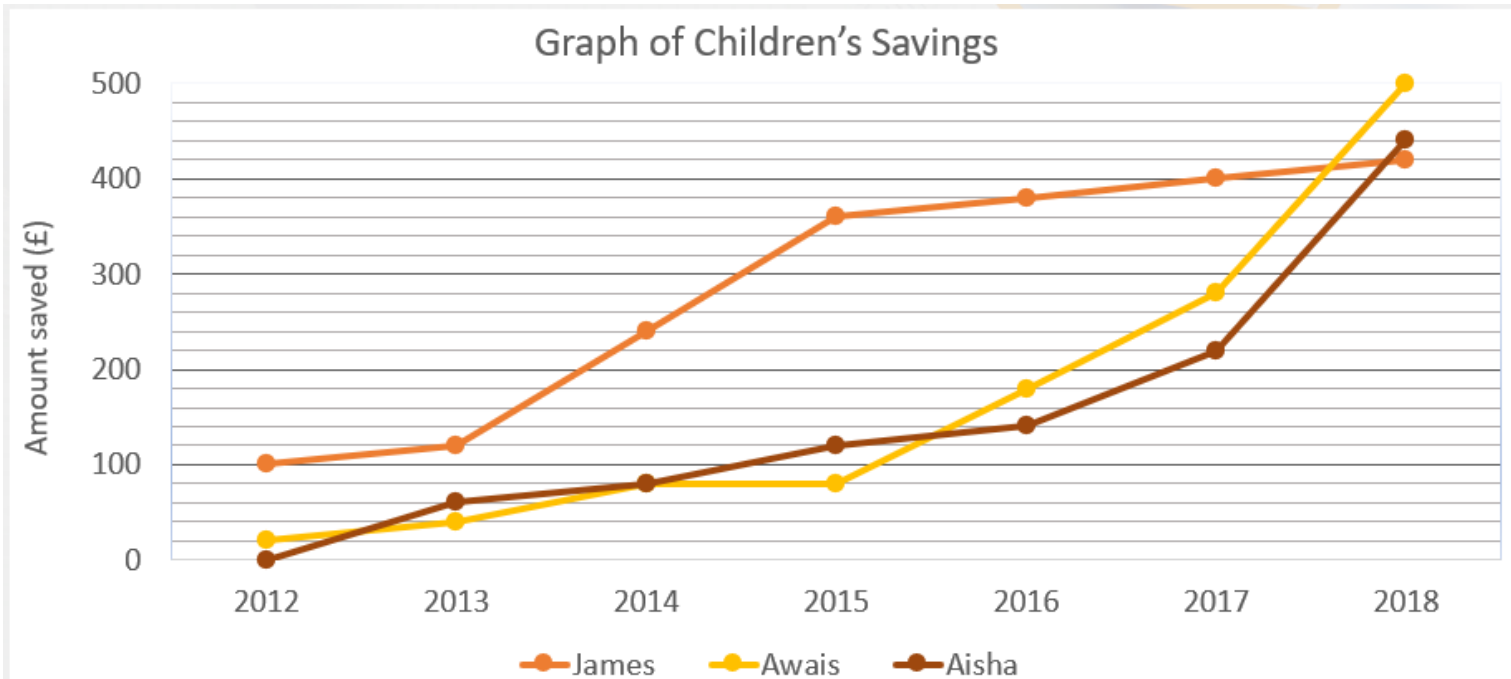
Gran Canaria is 19°C in December.

London is 7°C in December.

$$19^{\circ}\text{C} - 7^{\circ}\text{C} = 12^{\circ}\text{C} .$$

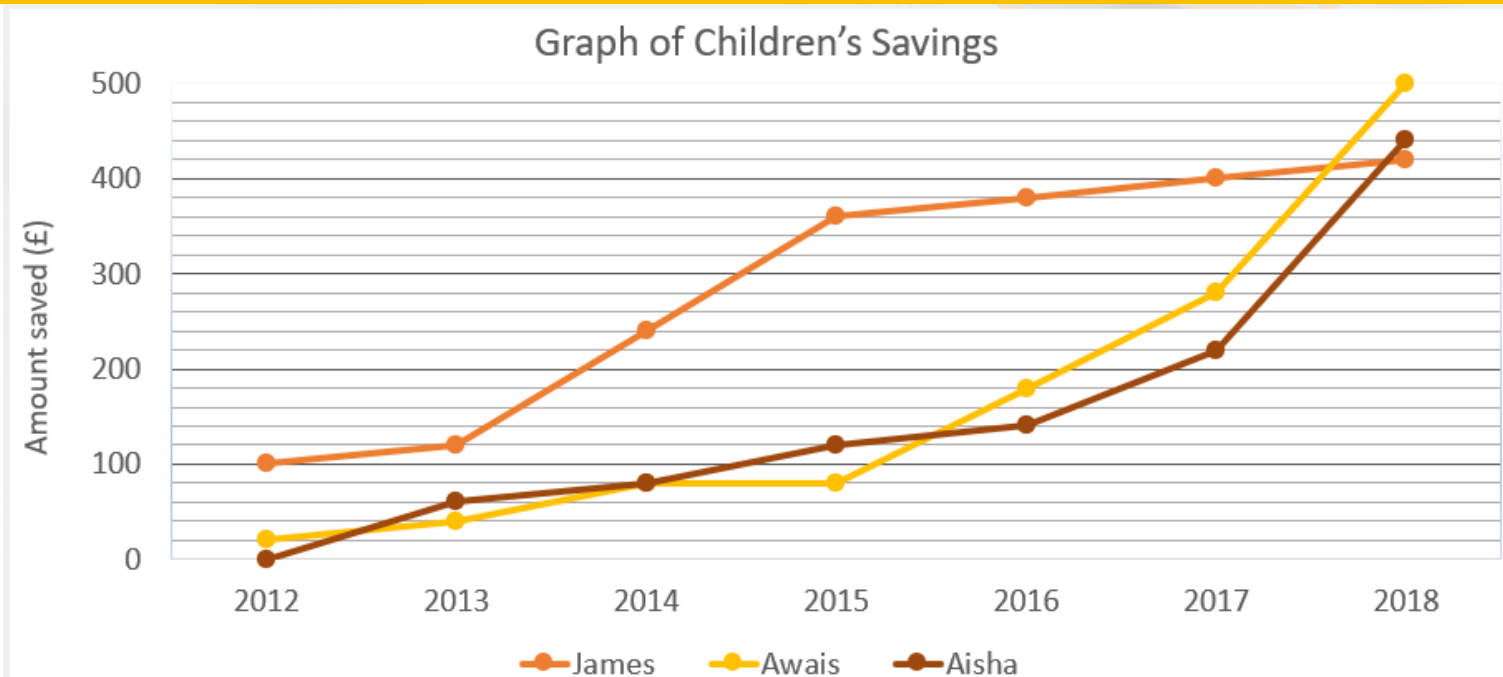


# Line Graphs: Reasoning



What is the same about these children's savings and what things are different?

# Reasoning Answers



What is the same about these children's savings and what things are different?

Various answers; for example:

All the children increase their savings over time.

James saves money every year.

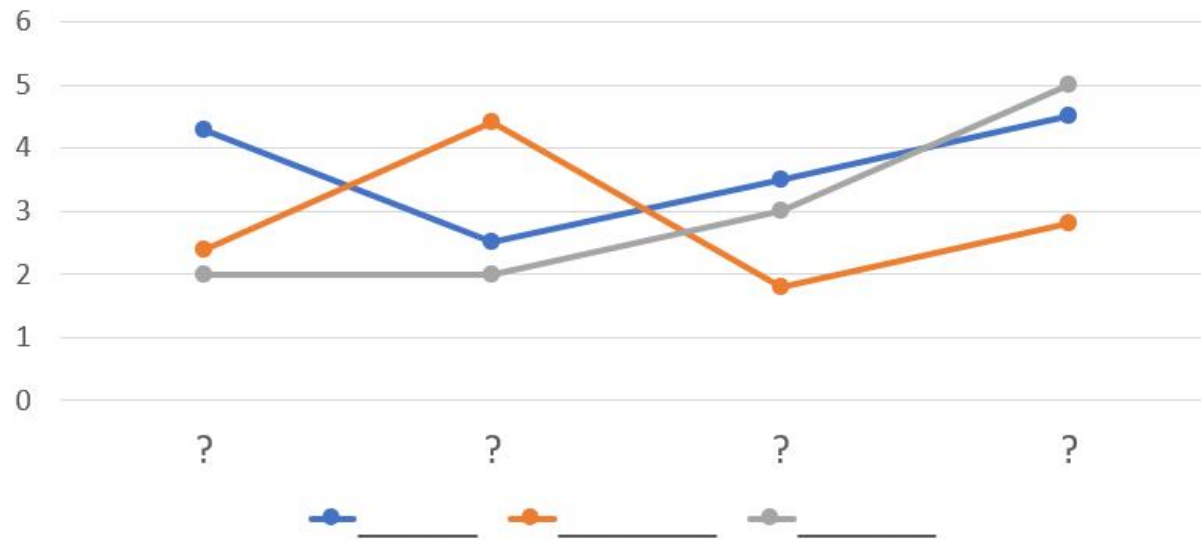
Awais doesn't save any extra money from 2014 – 2015.

James started with the most money but by 2018 had saved the least.



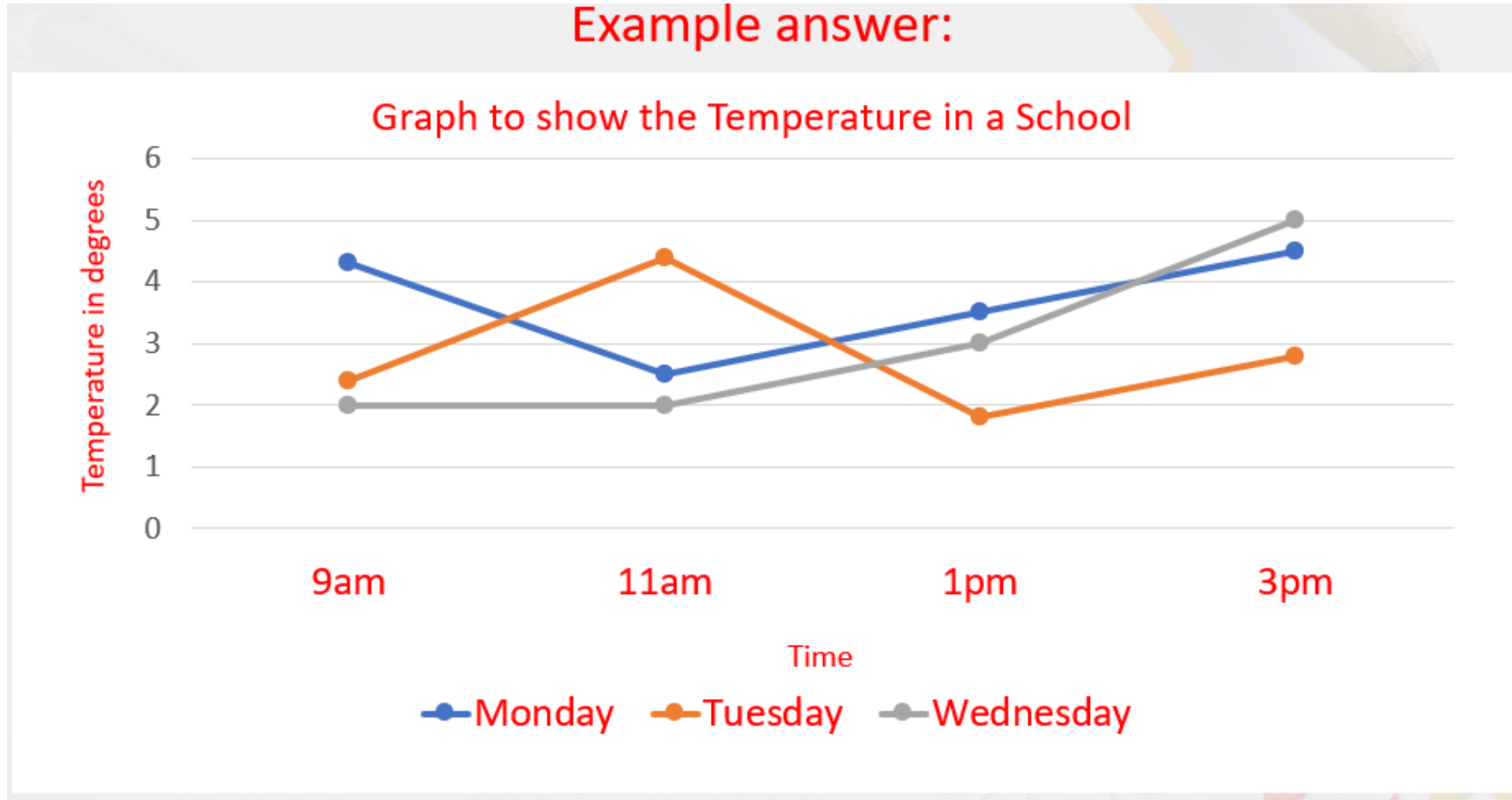
# Line Graphs: Problem Solving

What could this graph be showing? Label the graph to show what you think it could be about.



# Problem Solving Answers

Example answer:





Once you have finished turn  
this assignment in on Google  
Classroom.



# Task

All	All of you must complete the fluency section.
Most	Most of you will compete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any  
point:  
<https://corbettmathsprimary.com/2018/07/19/line-graphs-video/>

Week 4\_Maths\_Lesson 2

## Lesson 2

L.O I am learning to use line graphs to solve problems.

All	All of you must complete the fluency section.
Most	Most of you will complete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:

<https://corbettmathsprimary.com/2018/07/19/line-graphs-video/>

## Fluency

Key vocabulary: line graph, data, over time, problem, reasoning, highest, lowest

Your answer

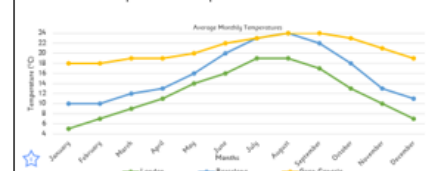
2a. How much more money had Awaits saved than James in 2017?



3b. Which child cycled the furthest from Friday to Saturday?

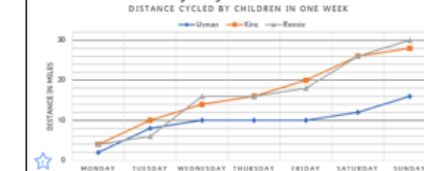


4a. What is the temperature in each place in December?

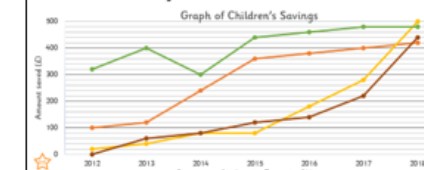


Week 4\_Maths\_Lesson 2

6b. How far had each child cycled by the end of the week?



8a. How much more money did Aisha have than Awaits in 2015?



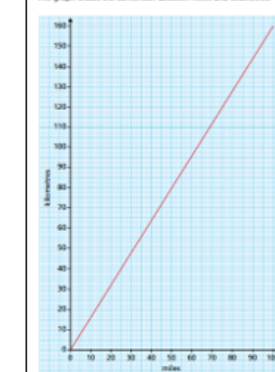
## Reasoning

Key vocabulary: line graph, data, over time, problem, reasoning, highest, lowest

Your answer

The graph shows the conversion between miles and kilometres.

Hint: Use a ruler to draw lines to help you.



a) How many kilometres are there in 45 miles?

b) How many miles are there in 128 kilometres?