Week 4

Lesson 1

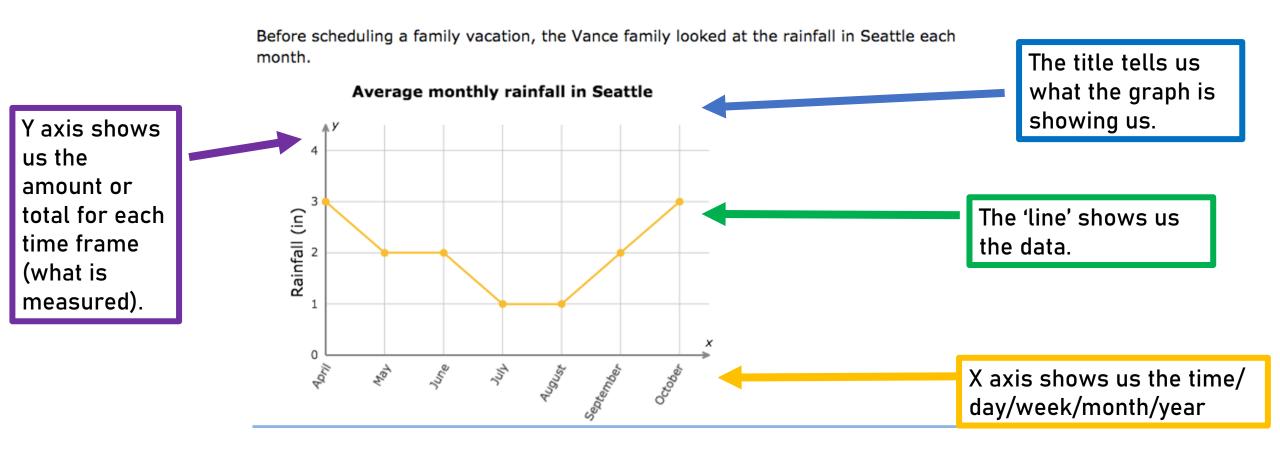
L.O: I am learning to read and interpret line graphs.



A line graph is often used to show a trend over a number of days, hours, months etc.

It is plotted as a series of points, which are then joined with straight lines. The ends of the line graph do not have to join to the axes.

Could you think of some examples of when we might use a line graph?





Using line graphs

Which of the following could you show on a line graph?

- A. Rainfall in two cities over a period of time.
- B. Your classmates' favourite sports.
- C. How long it takes 2 children to run the same distance.

Using line graphs

Which of the following could you show on a line graph?

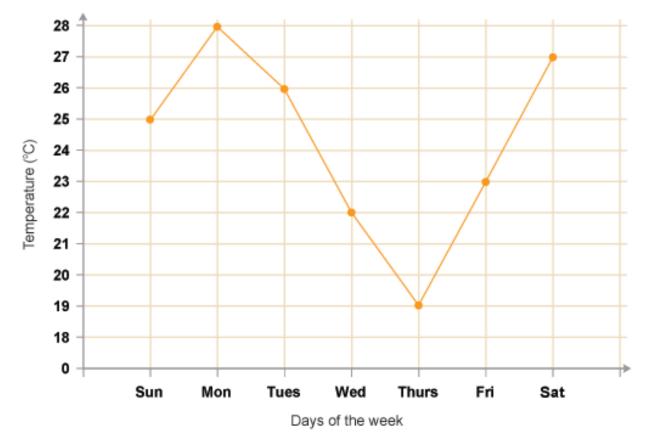
A. Rainfall in two cities over a period of time.

B. Your classmates' favourite sports.

C. How long it takes 2 children to run the same distance.



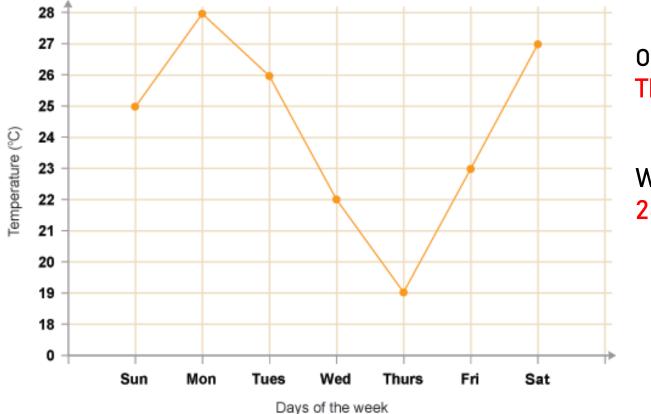
Types of questions



On which day is the temperature 19°C?

What was the temperature on Monday?

Types of questions

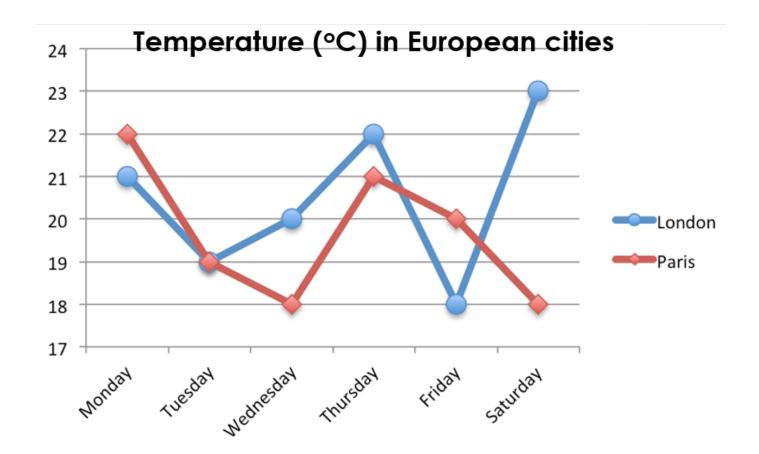


On which day is the temperature 19°C? Thursday

What was the temperature on Monday? 28°C

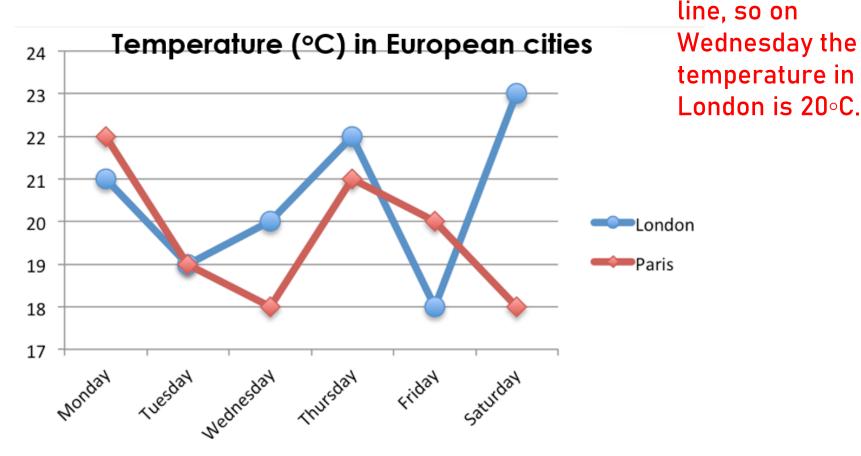


What is the temperature in London on Wednesday?



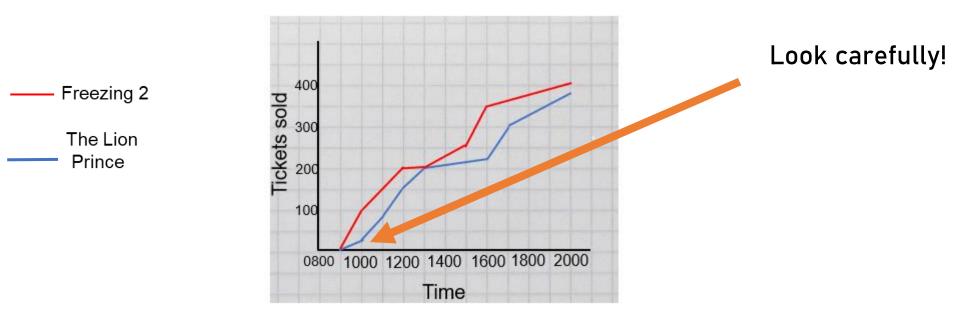
London is the blue

What is the temperature in London on Wednesday?



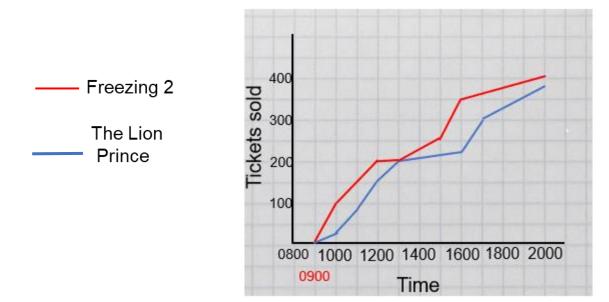
This line graph shows the sale of tickets for two films at the same cinema on the same day.

At what time did people start to buy tickets for both films?



This line graph shows the sale of tickets for two films at the same cinema on the same day.

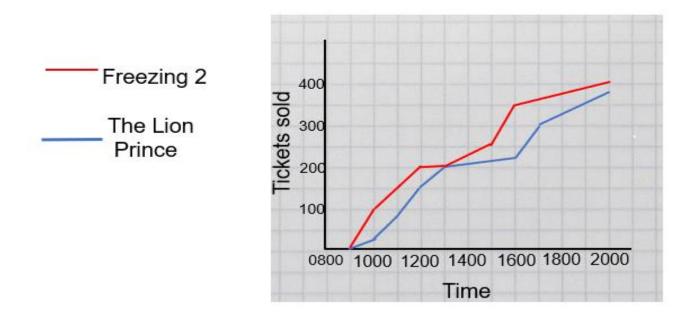
At what time did people start to buy tickets for both films?



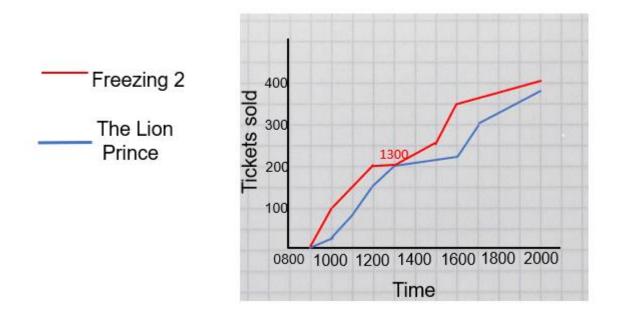
People started to buy tickets for both films from 9 o'clock in the morning.



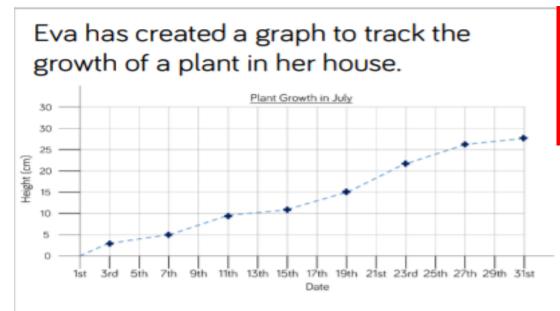
At what time did both films have the same number of tickets sold? How do you know?



At what time did both films have the same number of tickets sold? How do you know?



Both films had sold 200 tickets at 1300 – or 1 p.m. We know because it is the point where the two lines meet/cross.





Eva recorded the following facts about the graph.

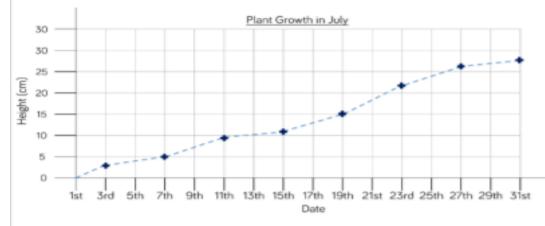
a) On the 9th of July the plant was about 9 cm tall.

b) Between the 11th and 19th July the plant grew about 5 cm.
c) At the end of the month the plant was twice as tall as it had been on the 13th.



Can you spot and correct Eva's mistakes?

Eva has created a graph to track the growth of a plant in her house.



Eva recorded the following facts about the graph.

a) On the 9th of July the plant was about 9 cm tall.

b) Between the 11th and 19th July the plant grew about 5 cm.
c) At the end of the month the plant was twice as tall as it had been on the 13th.



Can you spot and correct Eva's mistakes?

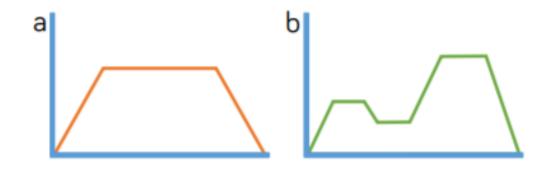
Reasoning Answers

a) On the 9th July a more accurate measurement would be 7.5 cm.

b) Correct.

c) On the 31st the plant was approximately 28 cm tall, but on the 13th it was only 10 cm which is not half of 28 cm. The plant was closer to 14 cm on the 17th July. Choose 1 of the 3 line graphs below. Think about a story and 3 questions for what it could represent.

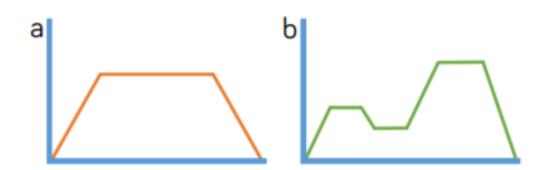






Choose 1 of the 3 line graphs below. Think about a story and 3 questions for what it could represent.

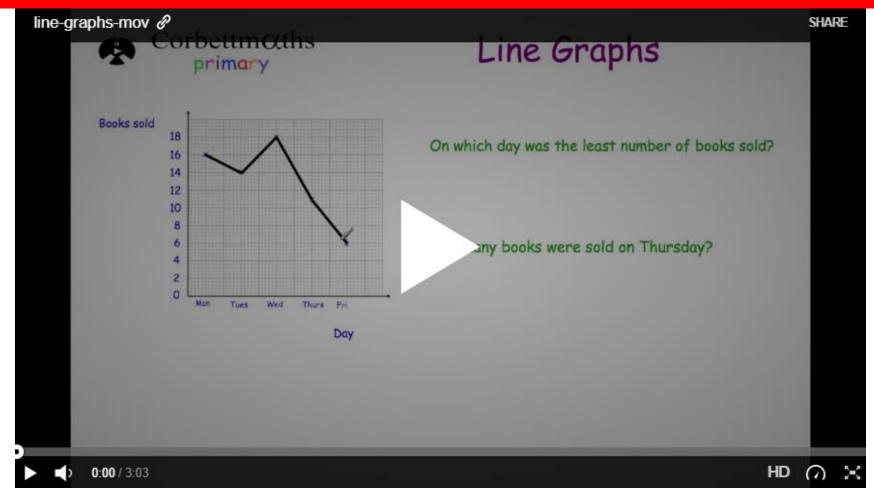
Problem Solving Answers



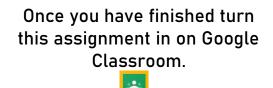
c

Possible context for each story: a) A car speeding up, travelling at a constant speed, then slowing down. b) The height above sea level a person is at during a walk. c) Temperature in an oven when you are cooking something.

A helpful revision video



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

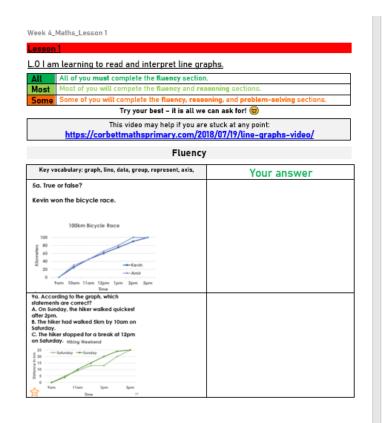


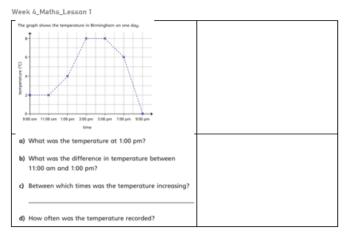
Task

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! $\textcircled{\sc op}$

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





Key vocabulary: graph, line, data, group, represent, axis,	Your answei
a. Yulia and Naveed are interpreting a raph. Yulia says, "The blue boat reached heir destination on Day 5." Naveed says, the red boat travelled 100km between ay 6 and Day 7." Tho is correct? Explain. Diatance travelled to the black boat to the boat to the black boat to the black	



Which skills or knowledge have I used or improved today?

Have I learnt something new today?

What do I need to remember?