

17.06.20

WALT read and interpret line graphs

Notes and Guidance

Children will build on their experience of interpreting data in context from Year 5, using their knowledge of scales to read information accurately. Examples of graphs are given but it would be useful if real data from across the curriculum e.g. Science, was also used. Please note that line graphs represent continuous data not discrete data. Children need to read information accurately, including where more than one set of data is on the same graph.

Mathematical Talk

Where might you see a line graph used in real life?

Why is the 'Water Consumption' graph more difficult to interpret?

How can you make sure that you read the information accurately?

What is a line graph?

A graph with points connected by lines to show how something changes in value:

- as time goes by,
- or as something else changes.

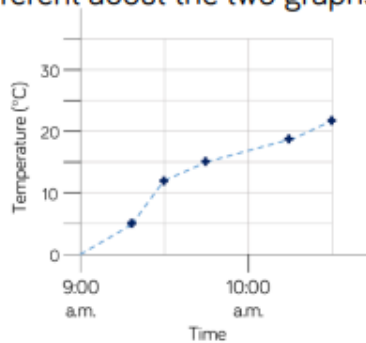
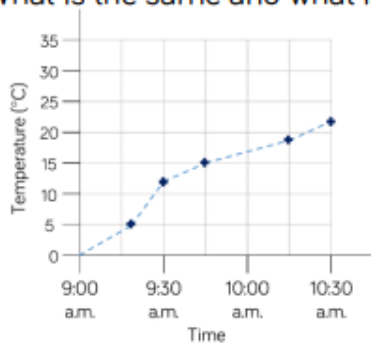
When are line graphs used?

To show a comparison between two criteria of data. For example, distance travelled over time or points scored over different days.

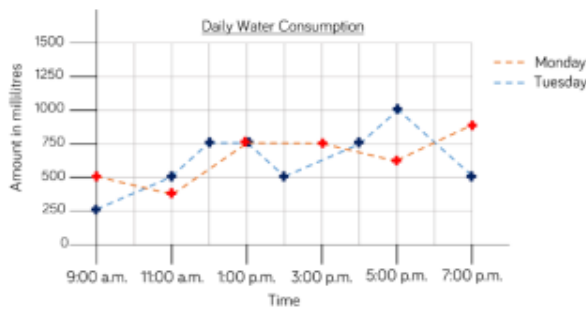
Watch - <https://www.youtube.com/watch?v=Opd1GDJjx4s>

Varied Fluency

What is the same and what is different about the two graphs?



Here is a graph showing daily water consumption over two days.

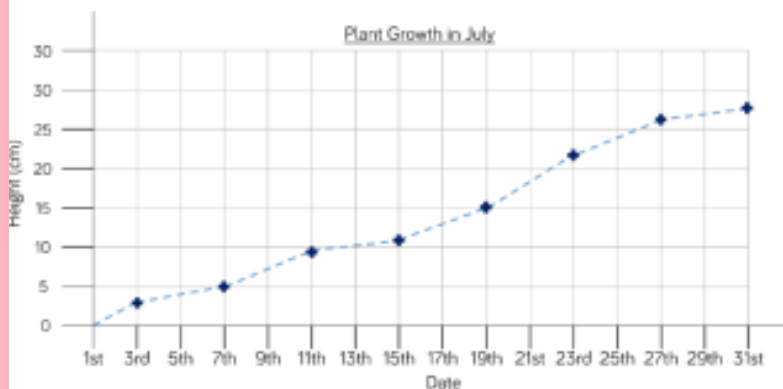


At what times of the day was the same amount of water consumed on Monday and Tuesday?

Was more water consumed at 2 p.m. on Monday or Tuesday morning? How much more?

3

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



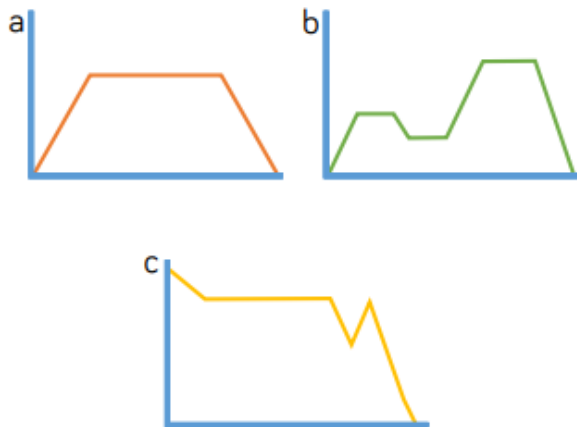
Eva recorded the following facts about the graph.

- 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?

Write a story and 3 questions for each of the 3 graphs below.



For an extra challenge work your way through the line graph problems powerpoint.