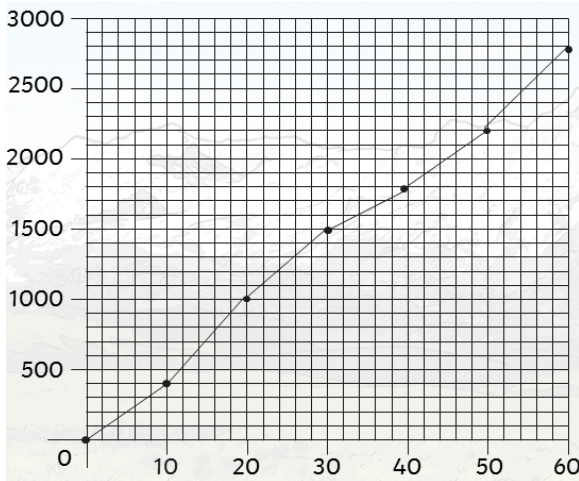


Monday 22nd June 2020

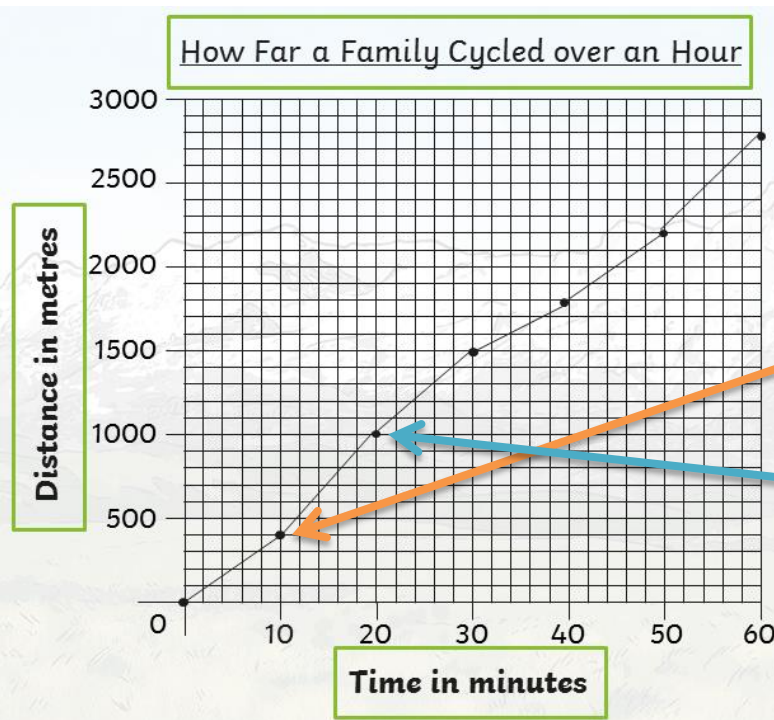
Understanding Line Graphs



This is a Line Graph. Just like the Bar Charts, they are drawn on squared paper and have an X and Y axis. Line graphs often show '**continuous data**'.

We can't tell what this chart is showing us because there are some features missing. Can you tell what is missing?

That's right! Titles! The main title and the labels (titles) for the X and Y axis are missing.



Here is the same chart with all features in place. Now we can tell what all these numbers are about. Now we can tell the story.

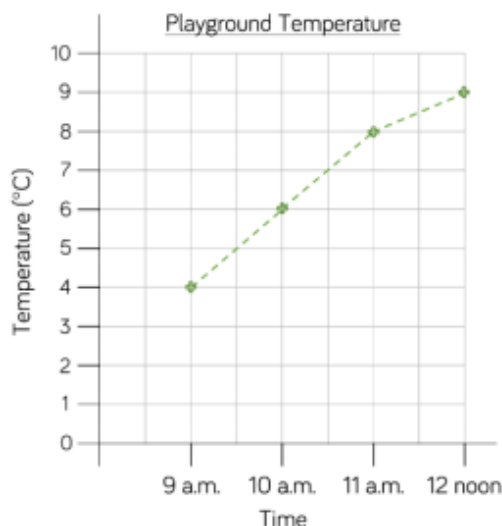
A family decided to go on a bike ride.

10 minutes into the journey they had travelled 400 metres.

It took them 20 minutes to travel 1000m.

1. a) How far had they travelled at 30 minutes?
b) By the end of their bike ride, how many metres had they travelled?

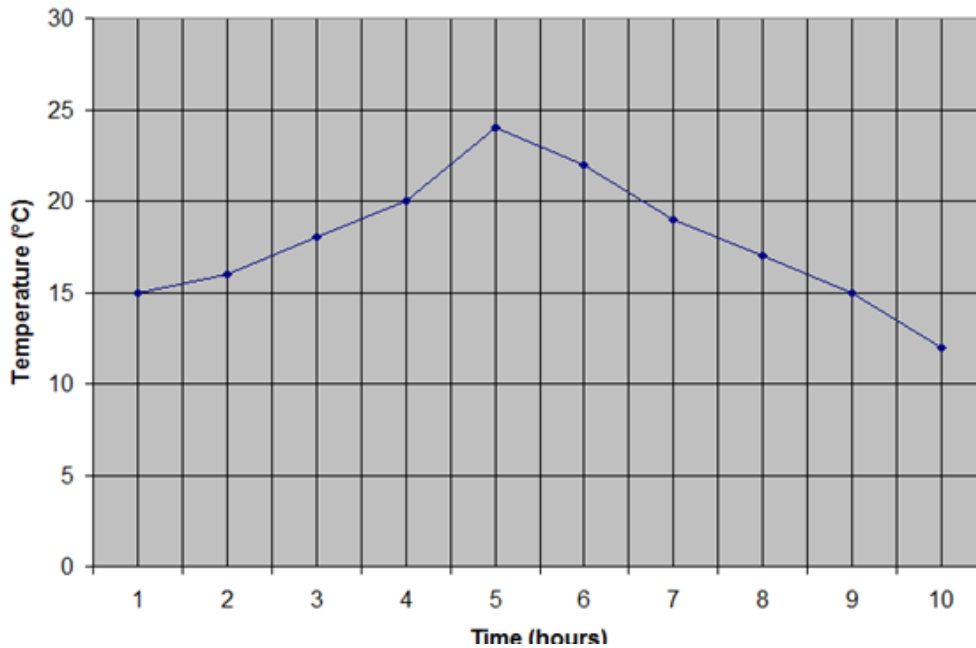
2. The graph shows the temperature in the playground during a morning in April.



The temperature at 9 a.m. is _____ degrees.

The warmest time of the morning is _____.

The temperature of our classroom



3.

- What is the temperature of the room at the very start?
- Between which hours did the temperature make a significant rise?
- Between which hours did the temperature make the least rise?
- At what hour did the temperature begin to fall? What time of day do you think this was?
- What time of day was the first temperature taken?
- What is the difference in temperature between the first hour and the fifth hour?
- If the first temperature was taken at 9am what was the temperature at 5pm?

Over to you: DRAWING YOUR OWN LINE GRAPH:

- Check the information you are going to work with
- Write your title
- Decide on the amount of squares you will use (think about your scales)
- Draw your axis (with a ruler!)
- Write your scales
- Label your axis
- Plot the points from the information you have
- Join the points (use a ruler!)

LET'S GO!

4.

Class 4 grew a plant. They measured the height of the plant every week for 6 weeks.

The table shows the height of the plant each week.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
4 cm	7 cm	9 cm	12 cm	14 cm	17 cm



Create a line graph to represent this information.

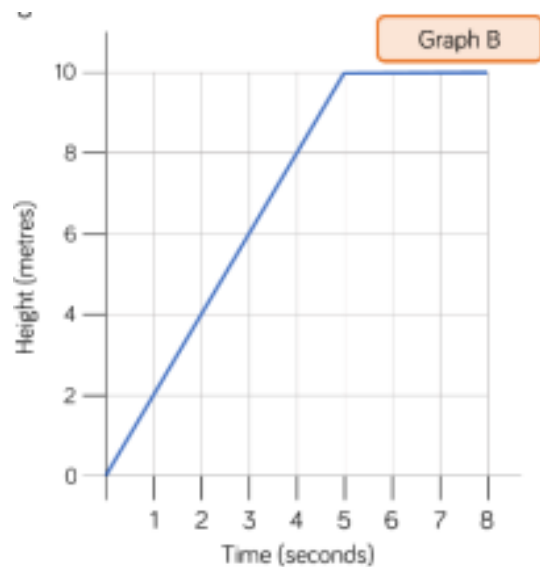
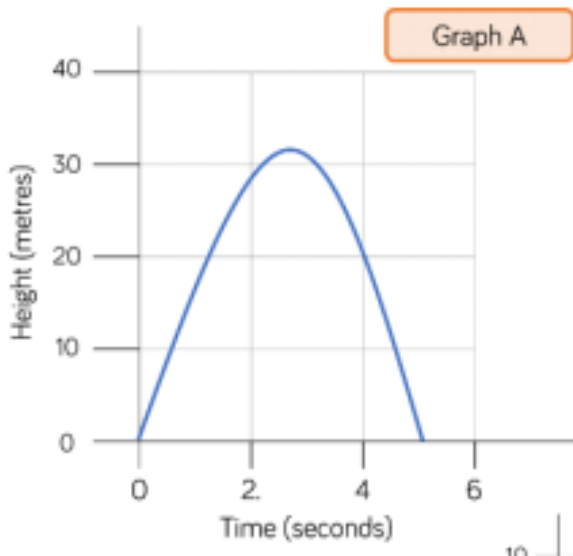
What scale would you use on the x and y axes?

Between which two weeks did the plant reach a height of 10 cm?

CHALLENGE:

Dirshe launched a toy rocket into the sky. After 5 seconds the rocket fell to the ground.

Which of these two graphs show this? Explain how you know.



I think Graph shows Dirshe's rocket falling to the ground after 5 seconds because ...

SUPER DOOPER CHALLENGE:

Create your own story to explain the other Line graph.