3/02/21

(Starter) O LO: Can I recap my knowledge of converting units of measure like distance (cm and m)?

(Main) O LO: Can I start to construct line graphs from given data?

Start by completing the starter task below on converting between cm and m. For further guidance on this, check the maths weekly input video on Class 4's page.

To move from centimetres to metres, you_____

To move from metres to centimetres, you _____

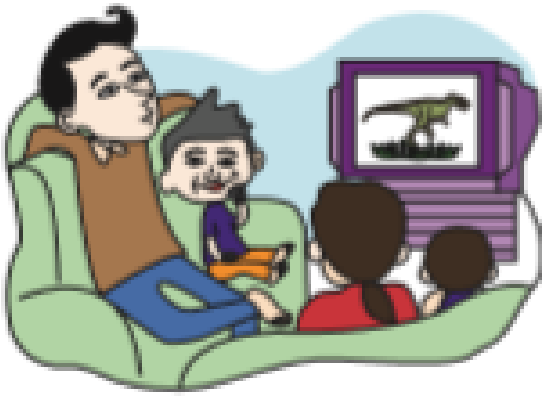
Centimetres	Metres
500cm	
	10m
	27.5m
52cm	
	13m
213.5cm	
	4.5m
4956cm	
78.5cm	
	32m
890cm	

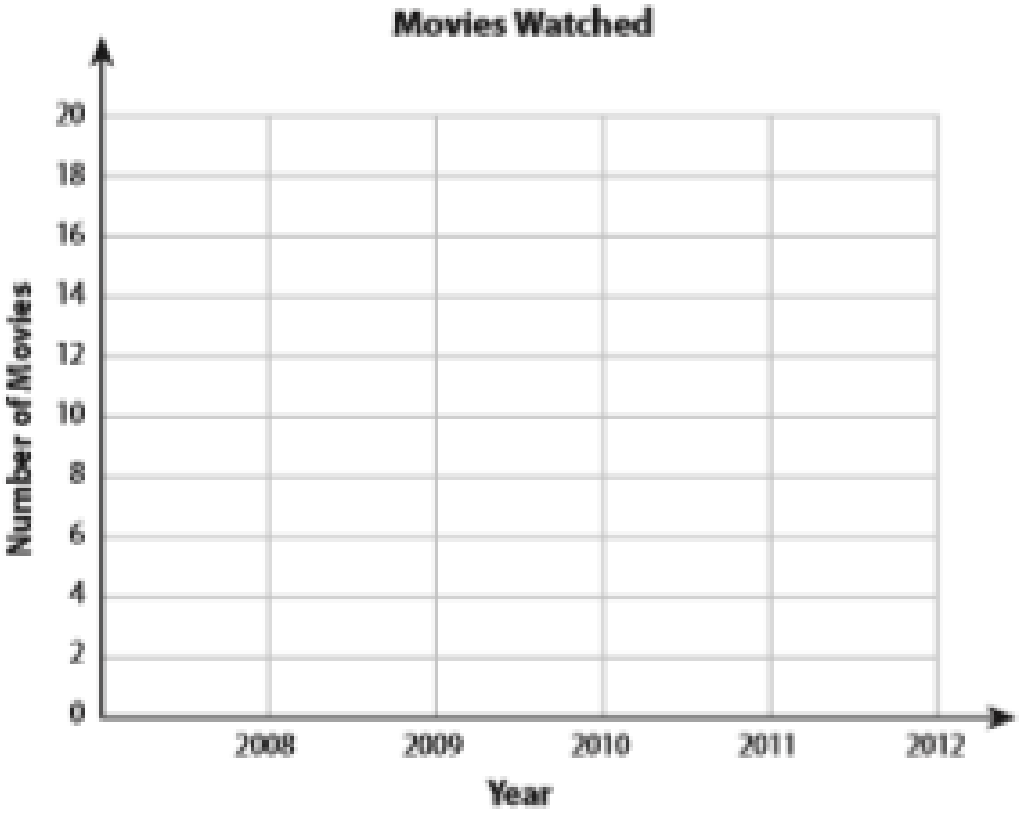
Your main task is to draw out and plot the data given to you below onto separate line graphs. Some of the questions have a line graph template attached (with an x and y axis), but some of the others do not. If you come across a question that does not have that outline, you need to have a go at drawing the x axis (along the corridor) and the y axis (up the stairs) yourself using a pencil and a ruler and a suitable scale for your data. You are also welcome to draw all of them from scratch if you feel you need more space to write your scale on your x or y axis. If you have any questions about this, you can watch the weekly input video or let me know when you send in your work to your Dojo portfolio.

Line Graph - Movies Watched

Kim and his family often watch movies at home. The data shows the number of movies watched by them from 2008 to 2012. Draw a line graph to represent the data.

Year	Number of Movies
2008	8
2009	12
2010	10
2011	14
2012	18

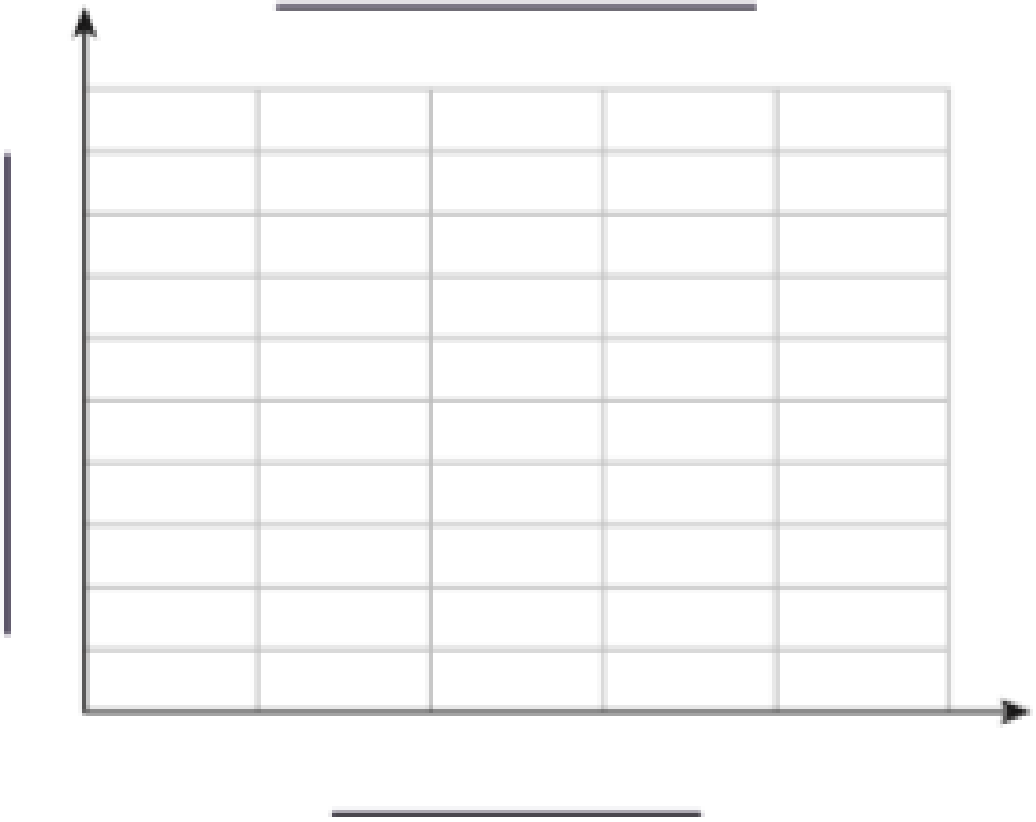




Line Graph - Absentees in a Class

The number of absentees from grade 1 to grade 5 at a school in a month are given below. Make an appropriate scale and draw a line graph. Also label the axes and writ a title for the graph.

Grade	Number of Students
Grade 1	15
Grade 2	6
Grade 3	18
Grade 4	6
Grade 5	9

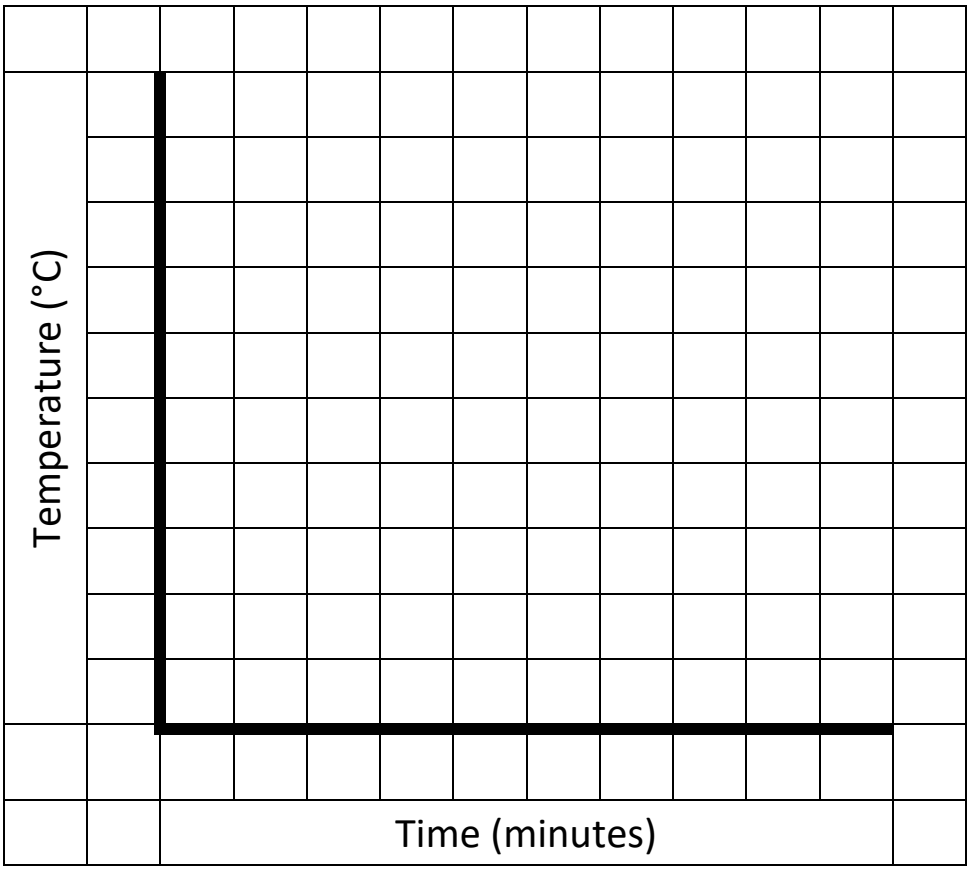


Plotting Line Graphs

The table below shows how quickly a beaker of water was heated up using a Bunsen Burner.

Time (minutes)	Temperature (°C)
0	10
1	20
2	30
3	50
4	60
5	60
6	70
7	80
8	80
9	90
10	100

Plot the information on this line graph.



Plotting Line Graphs – Extension (decimal number scale)

The table below shows the temperature in Hull over a single day

Time	Temperature (°C)
6am	1.5
8am	4
10am	7.5
12pm	12.5
2pm	9
4pm	6
6pm	4.5

Draw a line graph in your book (count up in 1s for the temperature axis, leaving a gap between each number) and plot this information on it. Put the times across the bottom and the temperature up the side.