

18.06.20

WALT draw line graphs

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

What do we need to consider when drawing a line graph?

- Make the axis clear and labelled
- Make the scale the same
- Create a key if there are multiple lines of data
- Ensure the plotted points are accurately placed
- Ensure the line to connect the plotted points is drawn with a ruler

Varied Fluency

This table shows the height a rocket reached between 0 and 60 seconds.

Time (seconds)	Height (metres)
0	0
10	8
20	15
30	25
40	37
50	50
60	70

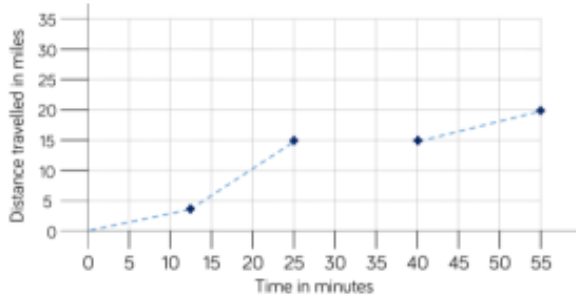
Create a line graph to represent the information.

The table below shows the population in the UK and Australia from 1990 to 2015.

	1990	1995	2000
UK	57,200,000	58,000,000	58,900,000
Australia	17,000,000	18,000,000	19,000,000
	2005	2010	2015
UK	60,300,000	63,300,000	65,400,000
Australia	20,200,000	22,100,000	23,800,000

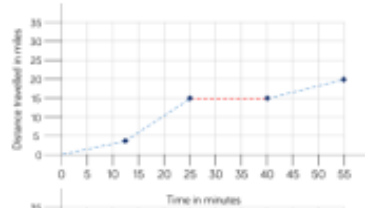
Create one line graph to represent the population in both countries. Create three questions to ask your friend about your completed graph.

This graph shows the distance a car travelled.

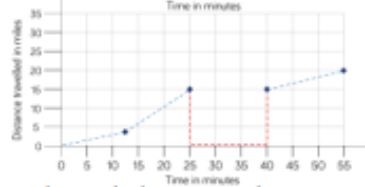


Rosie and Jack were asked to complete the graph to show the car had stopped. Here are their completed graphs.

Rosie:



Jack:



Who has completed the graph correctly? Explain how you know.

This table shows the distance a lorry travelled during the day.

Time	Distance in miles
7.00 a.m.	10
8.00 a.m.	28
9.00 a.m.	42
10.00 a.m.	58
11.00 a.m.	70
12.00 a.m.	95
1.00 p.m.	95
2.00 p.m.	118

Create a line graph to represent the information, where the divisions along the x -axis are every two hours.

Create a second line graph where the divisions along the x -axis are every hour.

Compare your graphs. Which graph is more accurate?

Would a graph with divisions at each half hour be even more accurate?