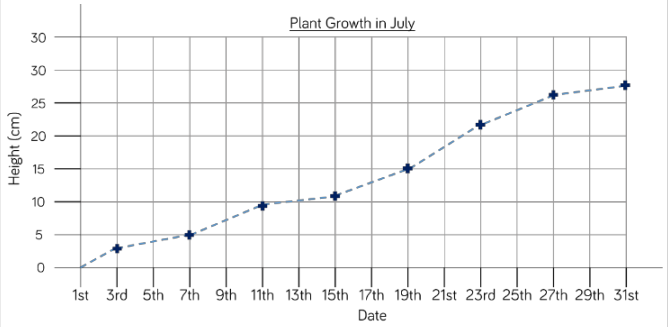
Read and Interpret Line Graphs

Reasoning and Problem Solving

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.

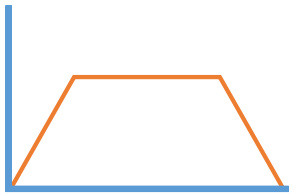
b) Between the 11th and 19th July the plant grew about 5 cm.

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?

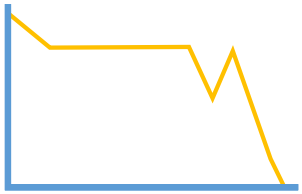
Write a story and 3 questions for each of the 3 graphs below.

a



b

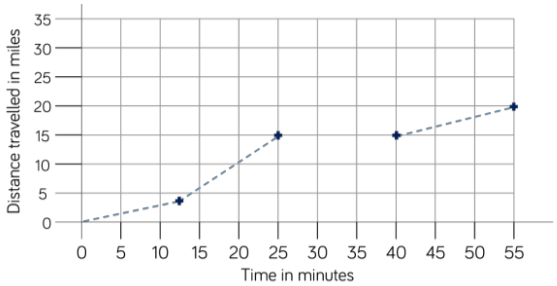
c



Draw Line Graphs

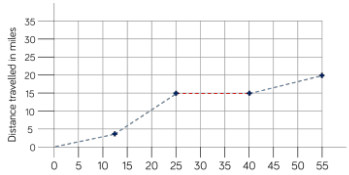
Reasoning and Problem Solving

This graph shows the distance a car travelled.

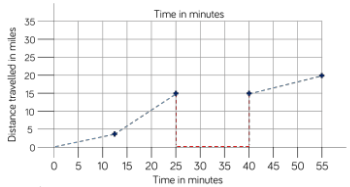


Rosie and Jack were asked to complete the graph to show the car had stopped.
Here are their completed graphs.

Rosie:



Jack:



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

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

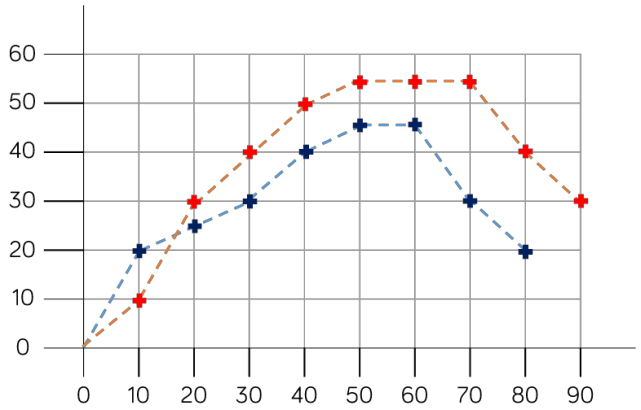
Time	Distance in miles
7.00 a.m.	10
8.00 a.m.	28
9.00 a.m.	42
10.00 a.m.	58
11.00 a.m.	70
12.00 a.m.	95
1.00 p.m.	95
2.00 p.m.	118

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?

Line Graphs Problems

Reasoning and Problem Solving

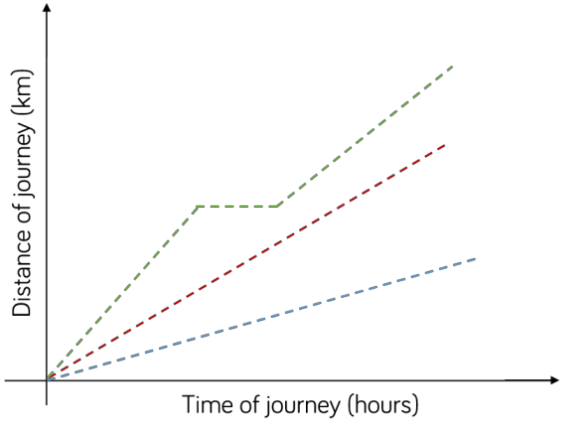
What could this graph be showing?



Label the horizontal and vertical axes to show this.

Is there more than one way to label the axes?

The graph below shows some of Mr Woolley's journeys.



What is the same and what is different about each of these journeys?

What might have happened during the green journey?