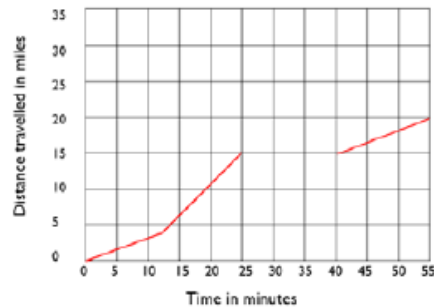
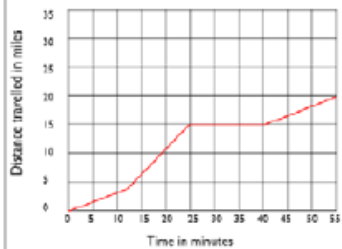


This graph shows the distance a car travelled.

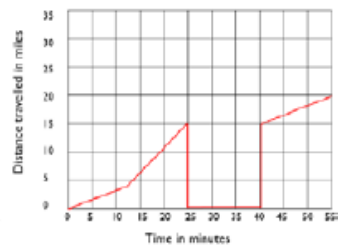


Kim and Rory were asked to complete the graph to show the car had stopped. Here are their completed graphs.

Kim:



Rory:



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



Kim has completed the graph correctly. The car has still travelled 15 miles in total, then stopped for 15 minutes before carrying on.

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

| Time | Distance in miles |
|----------|-------------------|
| 7.00 am | 10 |
| 8.00 am | 28 |
| 9.00 am | 42 |
| 10.00 am | 58 |
| 11.00 am | 70 |
| 12.00 am | 95 |
| 1.00 pm | 95 |
| 2.00 pm | 118 |

Create a line graph to represent the information where the divisions along the x axis are 2 hourly.

Create a second line graph where the divisions along the x axis are 1 hourly. Compare your graphs, which graph is more accurate?

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

Children may find that the second line graph is easier to draw and interpret as it matches the data given directly. They may discuss that it would be difficult to draw a line graph showing half hour intervals, as we cannot be sure the distance travelled at each half hour.