Here is a line graph showing the temperature in a garden.
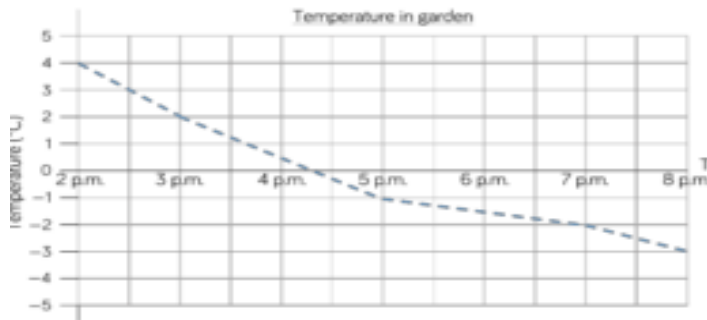
Temperature in garden

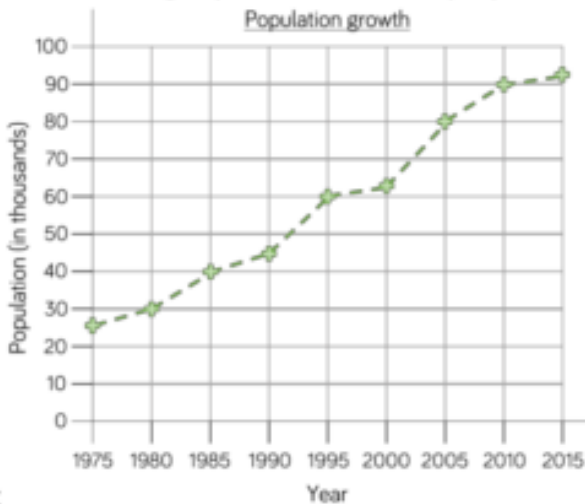What was the temperature at 5 p.m.?

What was the difference in temperature between 3 p.m. and 7 p.m.?

When was the temperature 4°C?

Estimate the time when the temperature was 0°C.

Estimate the temperature at 6 p.m.

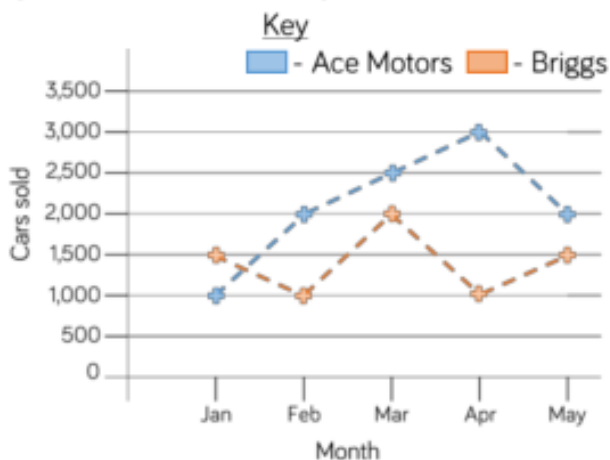This line graph shows the population growth of a town.

Population growth

What was the population in 1985?

How much did the population grow between 1990 and 2010?

When was the population double the population of 1985?

The graph shows the number of cars sold by two different companies.

Key

- Ace Motors   - Briggs

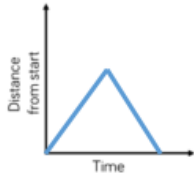- How many more cars did Ace Motors sell than Briggs in April?
- From January to March, how many cars did each company sell? Who sold more? How many more did they sell?
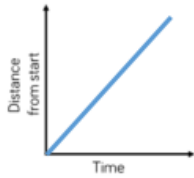- Crooks Motors sold 250 more cars than Briggs each month. Plot Crooks Motors' sales on the graph.

Match the graph to the activity.

Prove how you know.

_____

_____

_____

_____

_____

_____

_____
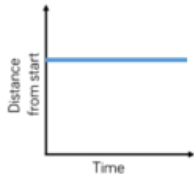
A car travels at constant speed on the motorway.

A car is parked outside a house.

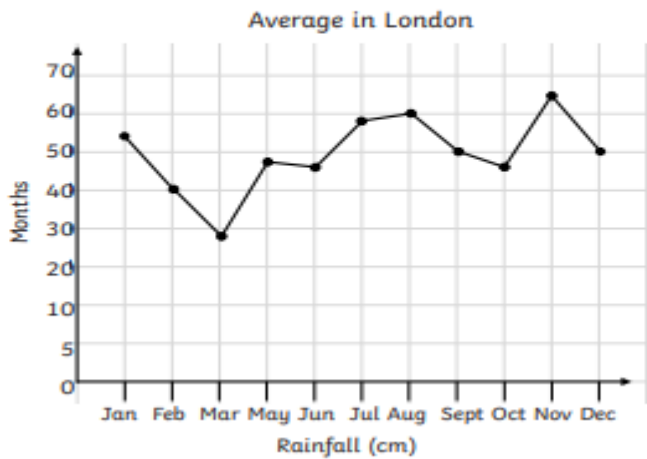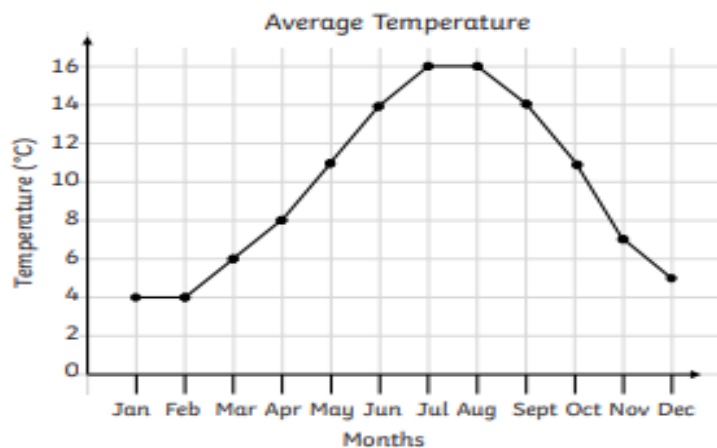A car drives to the end of the road and back.

(Graphs: Distance from start vs Time)

1. Explain the mistakes in this line graph showing average rainfall in London, which is drawn from the information in the table.

Average in London

(Graph with y-axis "Months" 0, 5, 10, 20, 30, 40, 50, 60, 70 and x-axis "Jan Feb Mar May Jun Jul Aug Sept Oct Nov Dec" labelled "Rainfall (cm)")

Month	Rainfall (mm)
January	54
February	40
March	28
April	38
May	48
June	46
July	58
August	60
September	50
October	57
November	65
December	50

2. Explain why each of the following statements are true or false.

- The lowest temperature is 5°C

- The difference between the highest and lowest temperature is 12°C.

- The temperature rose 11°C from March to May.

- The largest fall in temperature was from October to November.

Average Temperature

(Graph with y-axis "Temperature (°C)" 0, 2, 4, 6, 8, 10, 12, 14, 16 and x-axis "Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec" labelled "Months")

3. This graph shows the length of a shadow at each hour:

- When was the shadow shortest?
- What was the difference between the shortest and longest shadow?
- By how much did the shadow change between 8:00am and 10:00am?
- What time would you expect the shadow to be 120cm again?

Shadows From a 50cm Stick

Length of Shadow in Centimetres

140, 120, 100, 80, 60, 40, 20, 0

Time: 8:00, 9:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 16:00, 17:00, 18:00

Temperature in °C

60, 55, 50, 45, 40, 35, 30

Time in Minutes: 0, 1, 2, 3, 4, 5

– – – Blackcurrant Squash
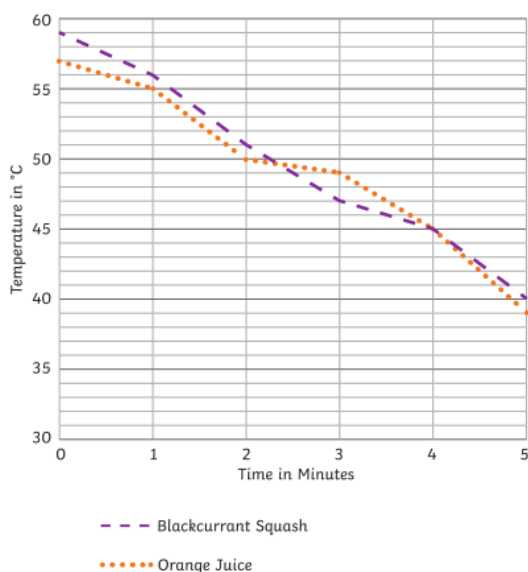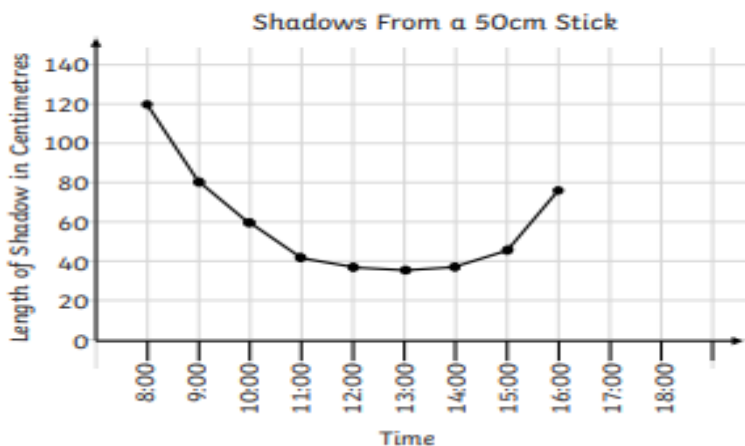
••••• Orange Juice

Decide whether these children's thoughts are true/false and explain how you know.
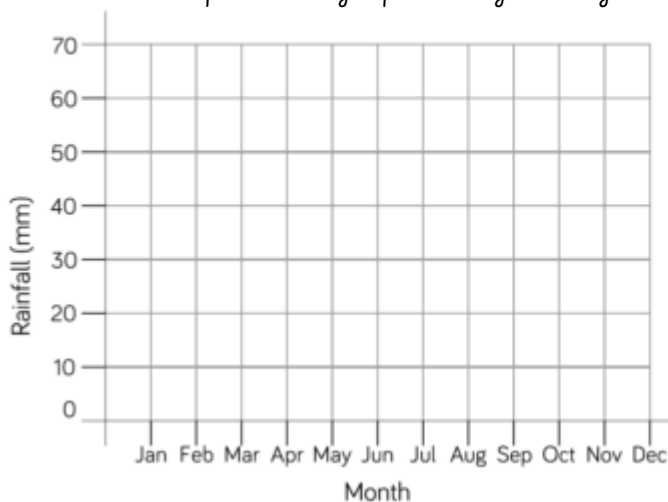
Jamal, " After two minutes, the difference in temperature between the two drinks was 1 degrees Celsius."

Kayden, "After three minutes, the orange juice was cooler than the orange squash."

Next Step:

The table shows the average rainfall in Leicester over a year.

Complete the graph using the information from the table.

Rainfall (mm)

70, 60, 50, 40, 30, 20, 10, 0

Month: Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Month	Rainfall (mm)
Jan	54
Feb	40
Mar	38
Apr	38
May	48
Jun	46
Jul	58
Aug	60
Sep	50
Oct	57
Nov	65
Dec	50