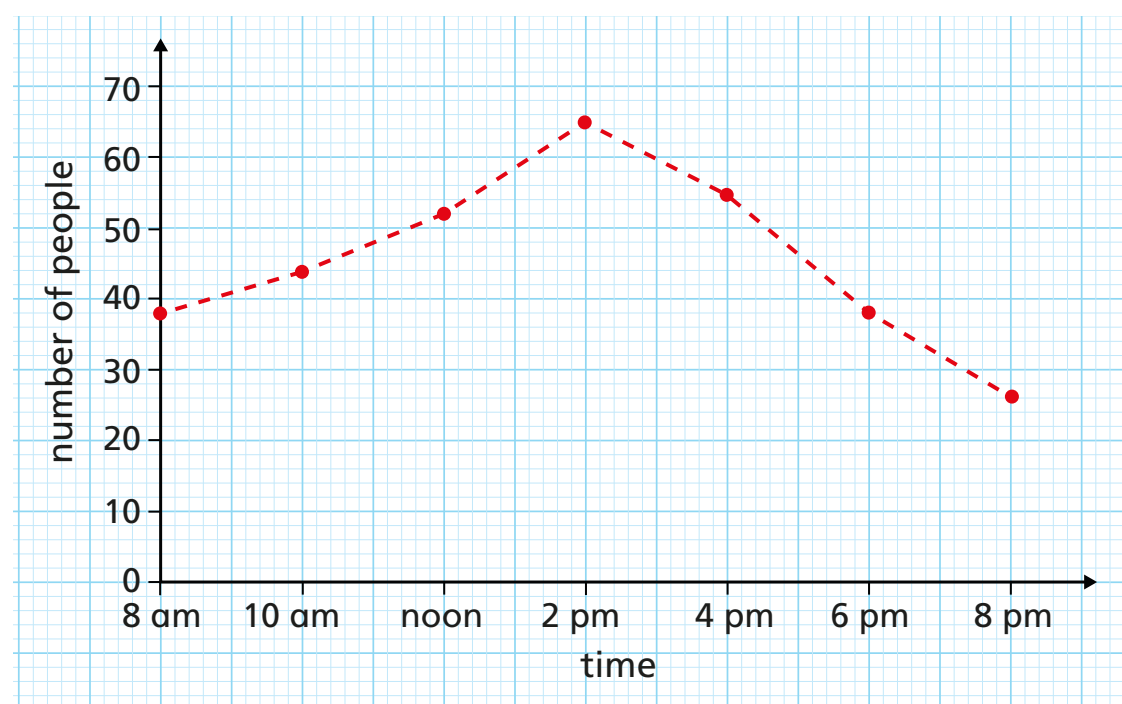


# Draw and interpret line graphs

- 1 The line graph shows the number of people in a gym at certain times of the day.



- a) How many people were in the gym at 8 am?
- b) At what time of day was the maximum number of people recorded? \_\_\_\_\_
- c) At what time of the day was the least number of people recorded? \_\_\_\_\_
- d) Between which two times was the biggest change in number of people recorded? \_\_\_\_\_
- e) \_\_\_\_\_



At 5 pm there were exactly 46 people in the gym.

Do you agree with Amir? \_\_\_\_\_

Discuss it with a partner.

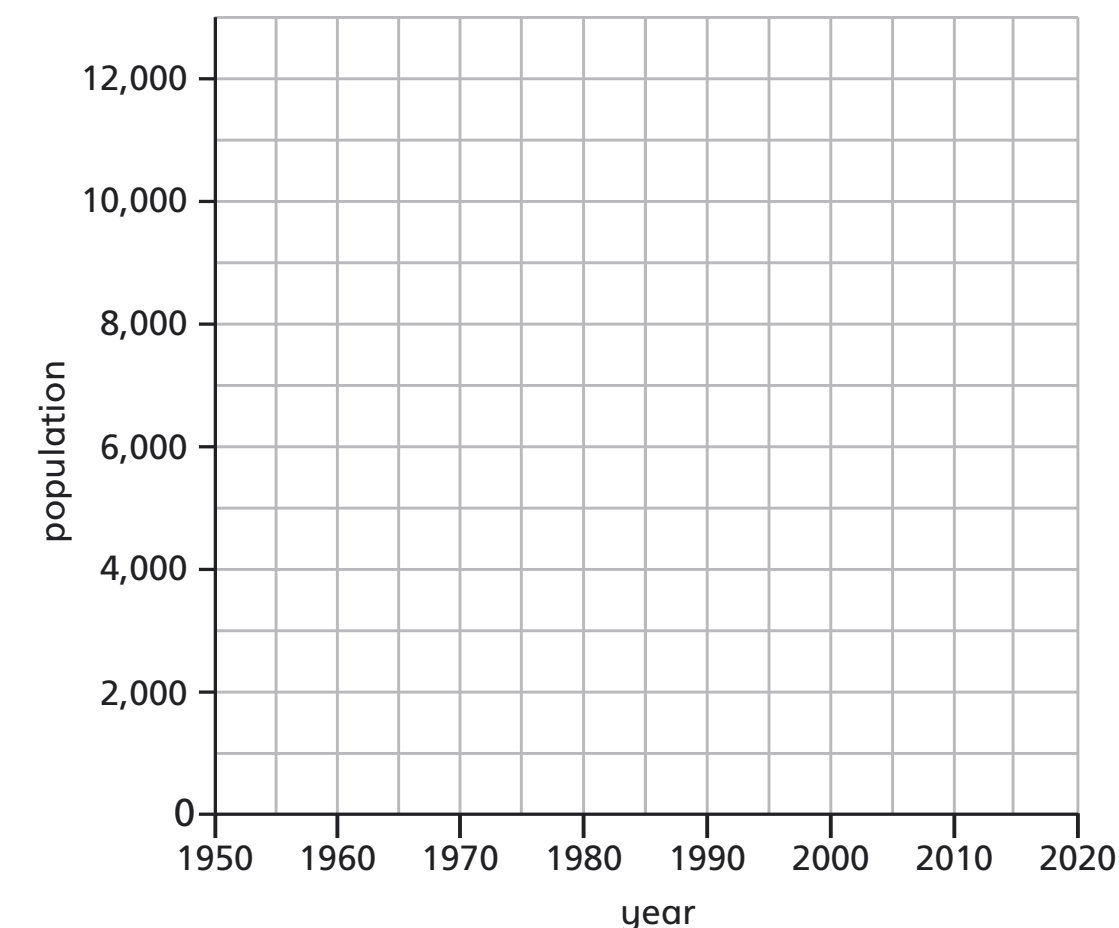
2

The table shows the population of a town at the end of each decade from 1950 to 2000

The populations have been rounded to the nearest 100

| Year       | 1950  | 1960  | 1970  | 1980  | 1990  | 2000  | 2010   |
|------------|-------|-------|-------|-------|-------|-------|--------|
| Population | 4,100 | 2,000 | 6,800 | 7,000 | 7,400 | 8,500 | 10,300 |

- a) Complete the line graph to show the information.



- b) Can you accurately tell the population in 1991? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

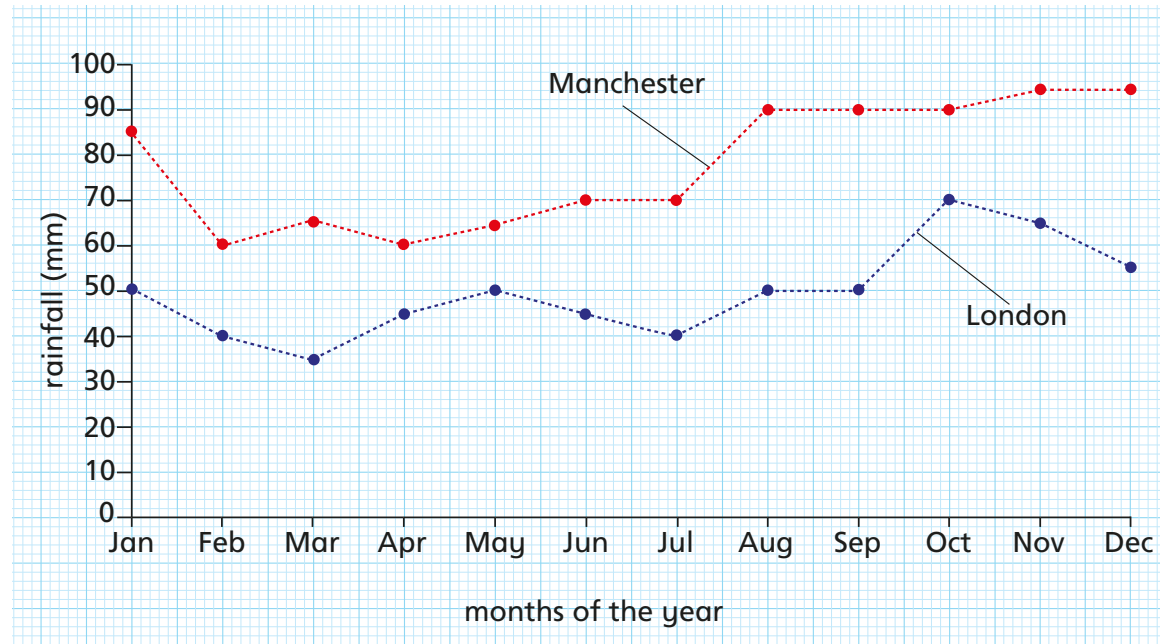
- c) Which decade had the least change in population? \_\_\_\_\_

- d) Predict the population in 2020

Show your workings on the graph.

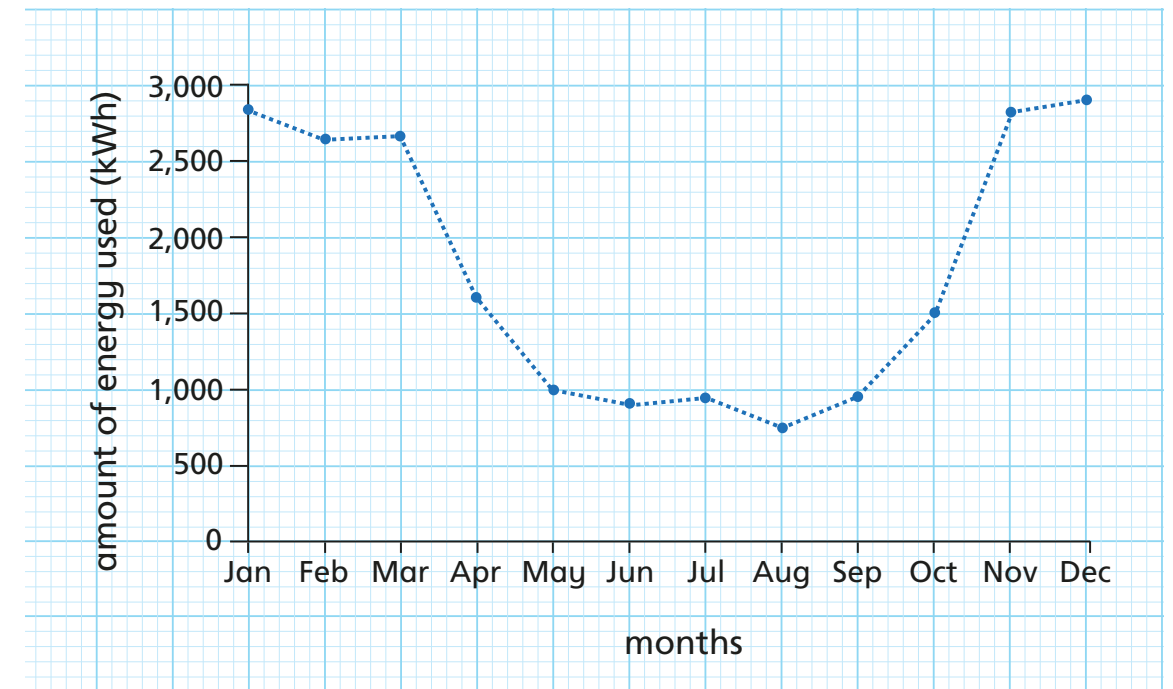
Compare answers with a partner.

- 3 The graph shows the rainfall each month in London and Manchester in 2019 to the nearest 5 mm.



- a) How many millimetres of rain fell in Manchester in June?
- b) Which month was the driest in London? \_\_\_\_\_
- c) How much more rain fell in Manchester than in London in March?
- d) Which city had more rainfall over the course of the year? \_\_\_\_\_  
How do you know from just looking at the graph?  
\_\_\_\_\_  
\_\_\_\_\_
- e) Work out the difference in rainfall between the cities over the course of the year.
- f) Is it possible to use the graph to tell how much rain fell on 14 February in each city? \_\_\_\_\_  
Discuss it with a partner.

- 4 Energy is measured in kWh (kilowatt hours).  
The graph shows the amount of energy being used each month in one household.



- a) Here is the information from another household.

| Month  | Jan   | Feb   | Mar   | Apr   | May   | Jun   |
|--------|-------|-------|-------|-------|-------|-------|
| Energy | 2,500 | 2,700 | 3,000 | 2,300 | 1,500 | 1,100 |

| Month  | Jul | Aug | Sep | Oct   | Nov   | Dec   |
|--------|-----|-----|-----|-------|-------|-------|
| Energy | 600 | 500 | 750 | 1,500 | 2,200 | 2,500 |

Show this information on the graph.

- b) Write two things you can tell by looking at the graph.  
\_\_\_\_\_  
\_\_\_\_\_
- c) What three things could you work out from the graph?  
Talk about it with a partner.