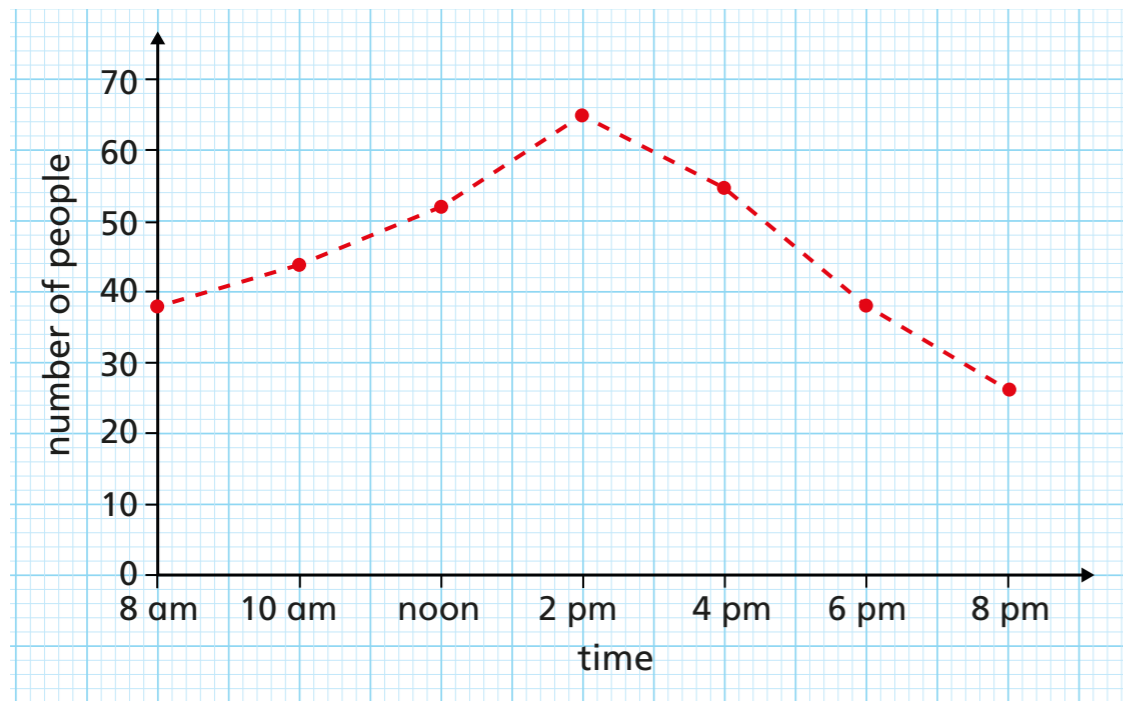# Draw and interpret line graphs

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.
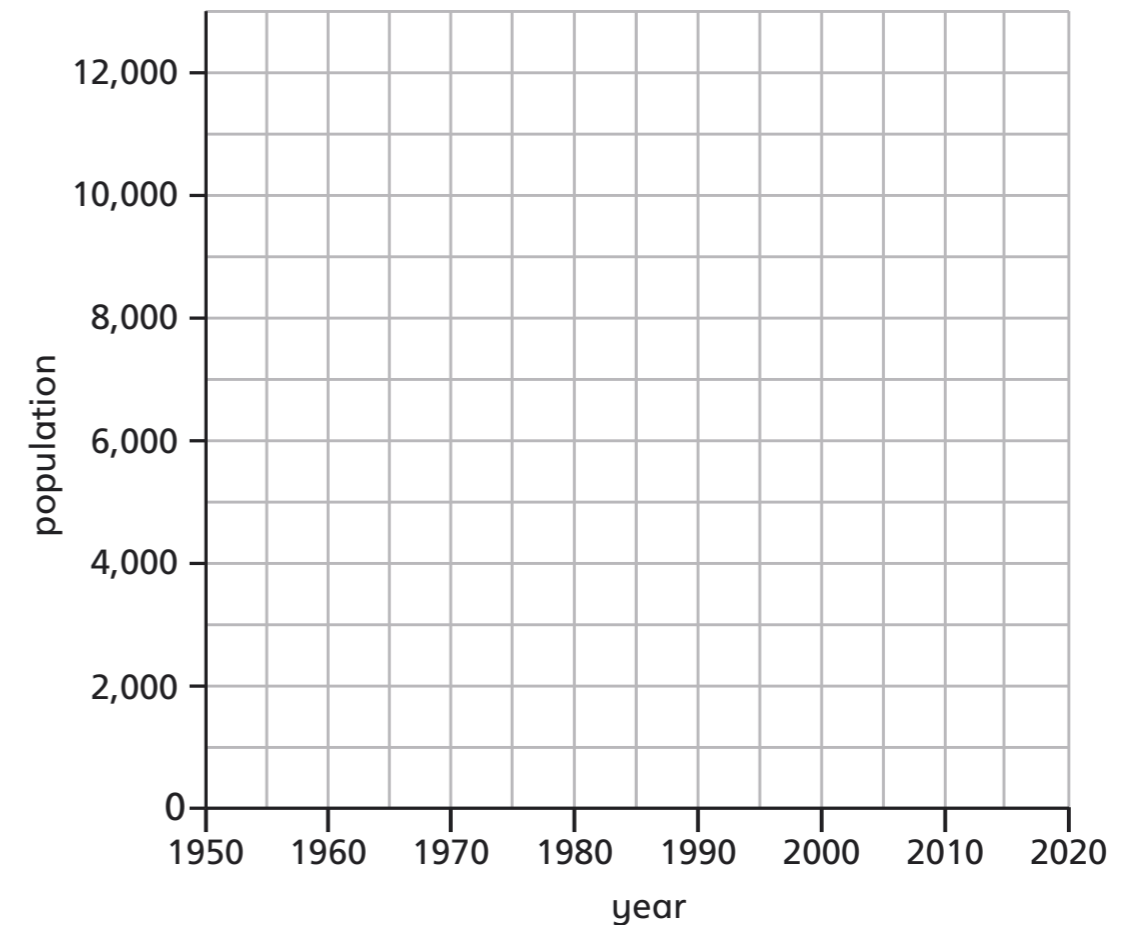
Do you agree with Amir? _____

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

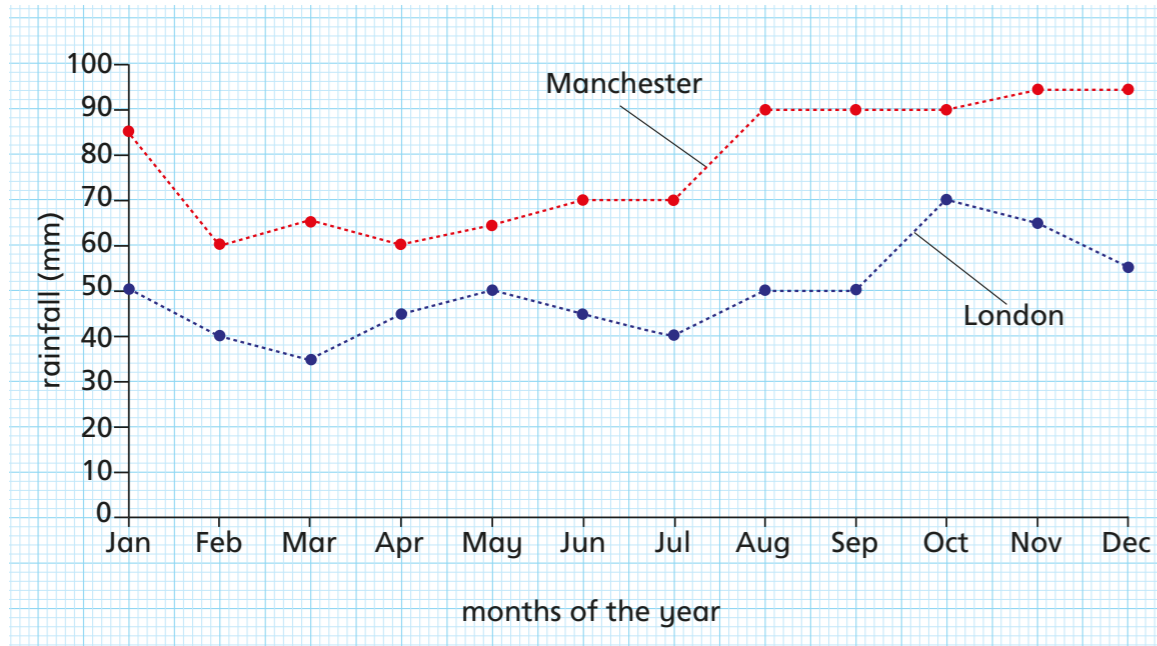| Year	1950	1960	1970	1980	1990	2000	2010
Population	4,100	2,000	6,800	7,000	7,400	8,500	10,300

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

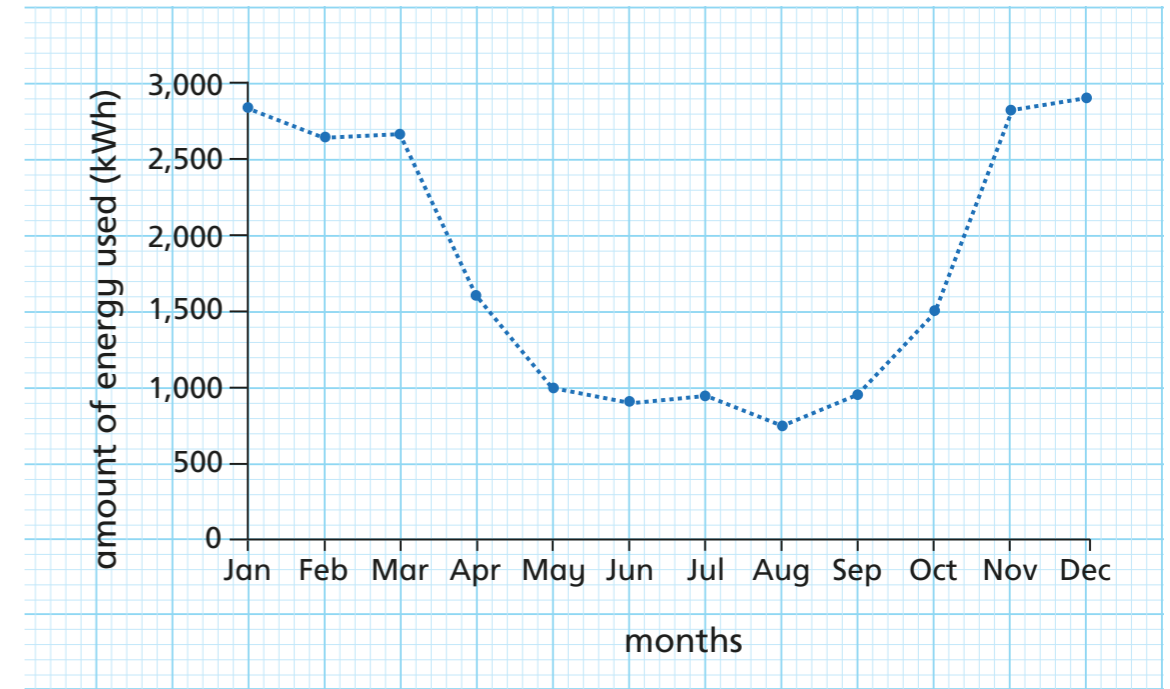Show your workings on the graph.

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.