

# Interpreting tables

- 1 The table shows how much money a shop makes each day.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Money made	£192	£376	£89	£284	£423

- a) In total, how much money was made on Tuesday and Friday?

In total, £  was made on Tuesday and Friday.

- b) On which day did the shop make the most money?

The shop made the most money on \_\_\_\_\_.

- c) How much more money was made on Monday than Wednesday?

£  more was made on Monday than on Wednesday.

- d) On which days did the shop make less than £200?

The shop made less than £200 on \_\_\_\_\_.

- e) Isla says that on Thursday the shop made double what it made on Monday.

Is Isla correct? Explain how you know.

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- 2 The table shows the lengths of four snakes.

Type of snake	Length (metres)
Python	6.5
Thread snake	0.1
Acrochordus	2.5
Cobra	5

Complete the sentences with the correct type of snake.

- a) The \_\_\_\_\_ is the shortest snake.  
 b) The python is \_\_\_\_\_ long.  
 c) The python is \_\_\_\_\_ longer than the acrochordus.  
 d) The \_\_\_\_\_ is half the length of the \_\_\_\_\_.

- 3 742 children go to a school.

The table shows how the children travel to school.

How child travels to school	Walk	Bus	Bike	Car	Other
Number of children	154		259	238	20

What is the difference between the number of children who travel by bus and the number of children who walk to school?




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- 4 Toshi keeps a record of how many hours he works each day.


Day	Monday	Tuesday	Wednesday	Thursday	Friday
Hours worked	8	9	7.5	4	1.5

**CHALLENGE**

Toshi gets paid £15 an hour.

How much money does Toshi get paid in total?

In total, Toshi gets paid £ .



## Reflect

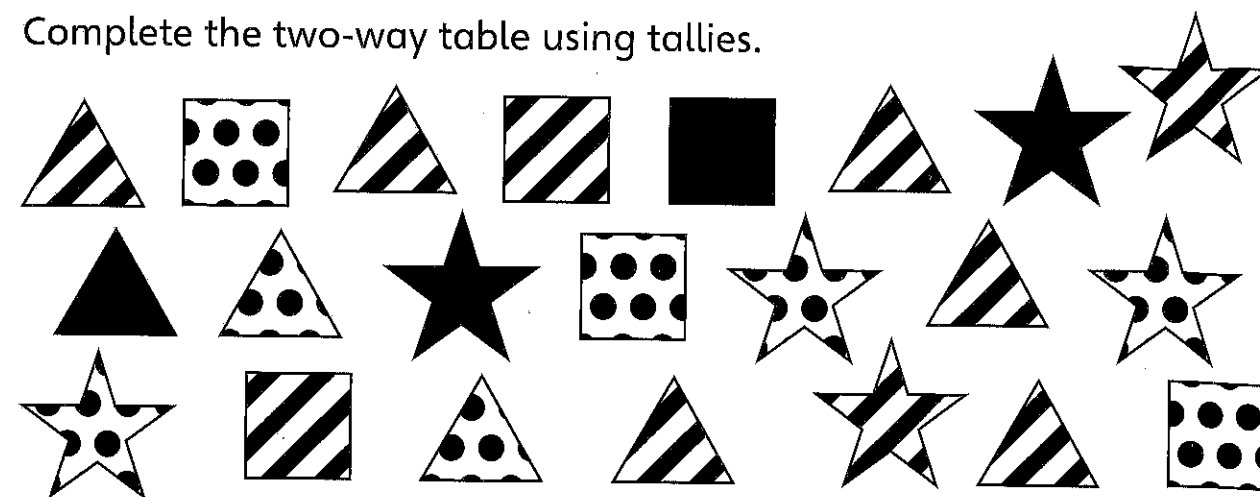
Write down three facts using the information in the table.

Use words such as total, more, less, difference and half.

Colour	Number of cars
Red	11
Black	25
White	9
Other	5

## Two-way tables

- 1 a) Complete the two-way table using tallies.



	Spots	Stripes	Solid black
Square			
Triangle			
Star			

- b) Complete the two-way table of totals using digits.

	Spots	Stripes	Solid black	Total
Square				
Triangle				
Star				
Total				

- c) How many shapes have spots? How did you work this out?

shapes have spots.

I worked this out by \_\_\_\_\_

- 2 The two-way table shows information about the eye colour of 25 children.

	Girl	Boy	Total
Brown	3	10	<input type="text"/>
Blue	<input type="text"/>	5	<input type="text"/>
Total	10	<input type="text"/>	25

- a) Complete the two-way table by filling in the missing numbers.
- b) How many children have brown eyes?
- c) How many fewer girls have brown eyes than blue eyes?
- d) What fraction of the class are girls?  $\frac{\text{ } \text{ } }{\text{ } \text{ } }$

- 3 The two-way table shows the number of pets in three different pet shops.

	Rabbits	Guinea Pigs	Hamsters	Total
Petz R Us	<input type="text"/>	15	49	88
Animals	52	17	26	<input type="text"/>
We Love Pets	28	51	<input type="text"/>	92

- a) Complete the two-way table by filling in the missing numbers.
- b) Which shop has the most guinea pigs? \_\_\_\_\_
- c) Which shop has twice as many rabbits as hamsters? \_\_\_\_\_
- d) How many pets in total do all three shops have?

- 4 The two-way table shows how children from one class travel to school.

	Walk	Cycle	Car	Other	Total
Boys	7	3		1	
Girls		1		0	
Total					

- There are 27 children in the class.
  - There are 15 boys in the class.
  - 7 children travel by car.
- a) Use the information to complete the two-way table.
- b) How many more children walk to school than cycle to school?  
 more children walk to school than cycle.
- c) Mrs Dean says, 'More than half of the children walk to school.'  
 Is Mrs Dean correct? Explain how you know.

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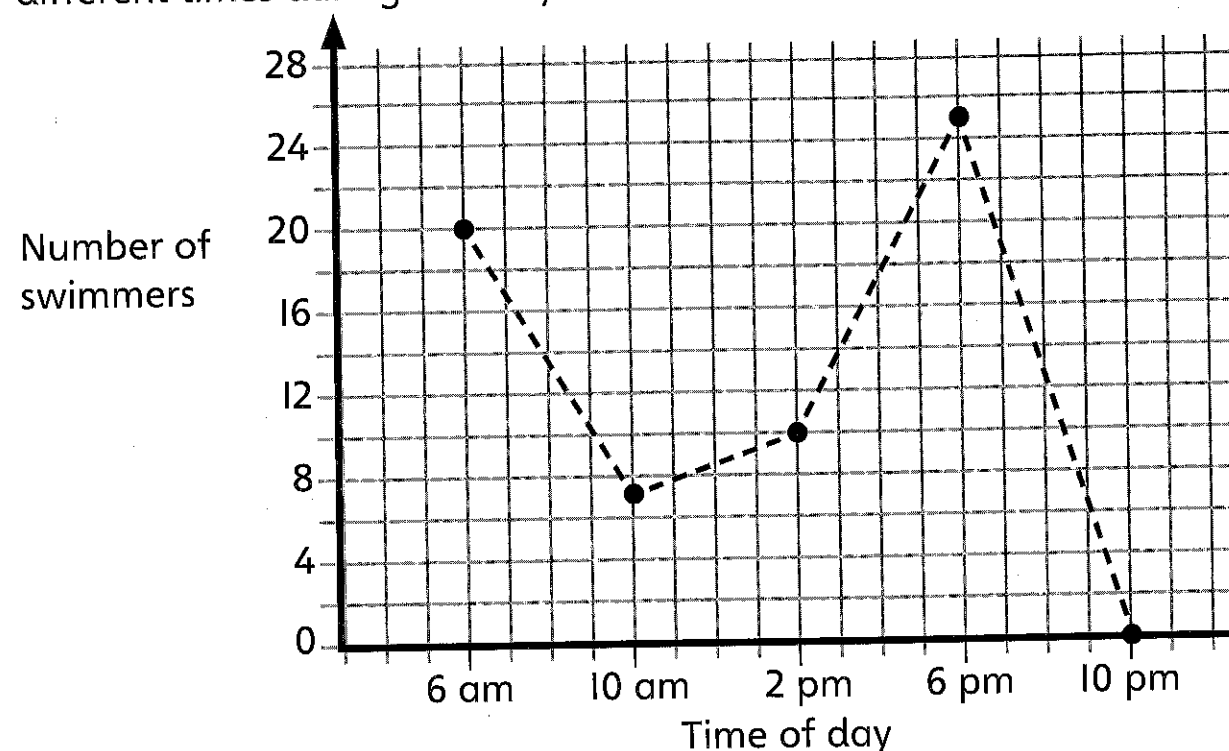
## Reflect

How are two-way tables different from the tables in the last lesson?

- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_

# Interpreting line graphs 1

- 1 The line graph shows the number of people at a swimming pool at five different times during one day.



- a) At which of the recorded times were there 10 swimmers in the pool?

- b) How many swimmers were in the pool at 6 am?

- c) Use the line graph to complete the table.

Time of day	6 am	10 am	2 pm	6 pm	10 pm
Number of swimmers					

- d) How many more swimmers were there at 6 pm than at 10 am?

There were  more swimmers at 6 pm.

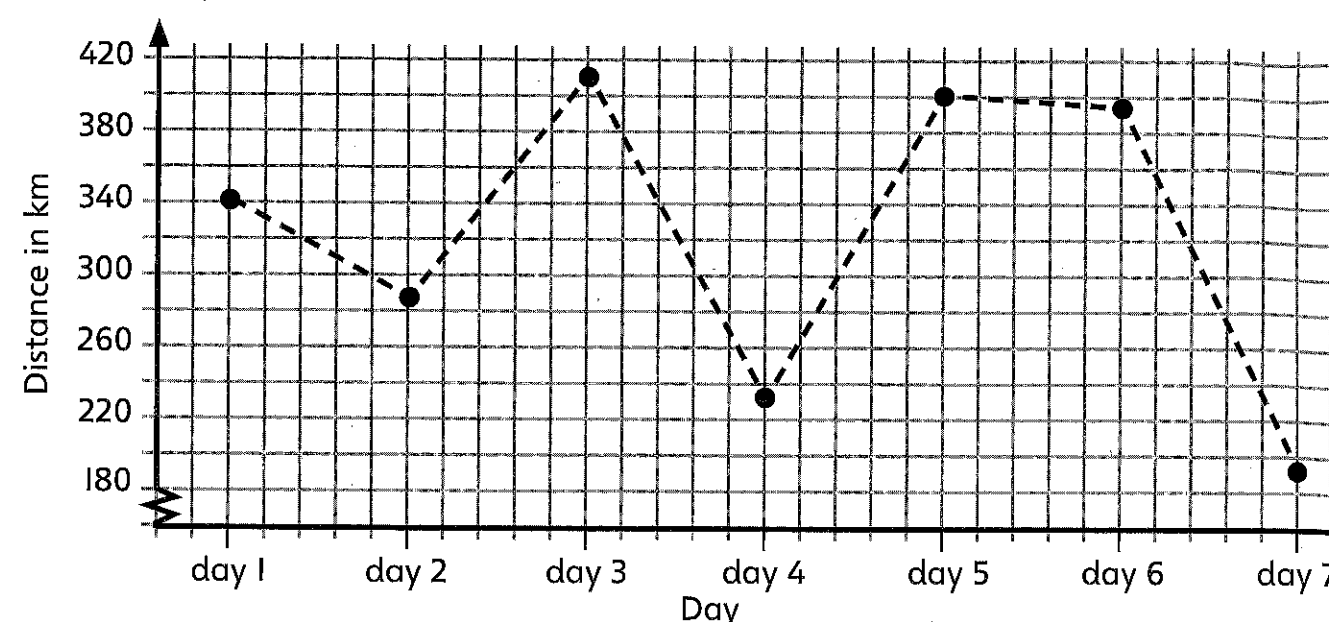
- e) Give a possible reason for the number of swimmers at 10 pm.

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- 2 The line graph shows the distance travelled each day last week by Mr Potter.



- a) On which day did Mr Potter travel the shortest distance? Day

- b) What distance did Mr Potter travel on day 6?  km

- c) How many more kilometres did Mr Potter travel on day 5 than in day 7?




Mr Potter travelled  km more on day 5 than on day 7.

- d) How many kilometres in total did Mr Potter travel in the first 3 days?




Mr Potter travelled  km in the first 3 days.

- e) The scale goes up in 20s, but why does the graph start at 180 km?

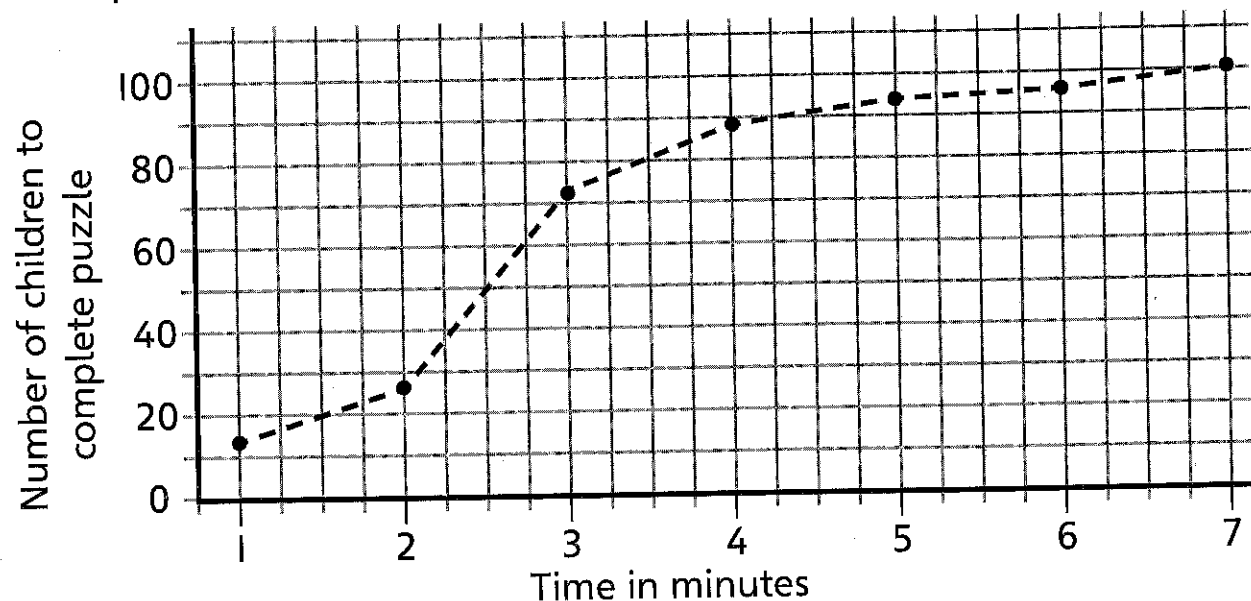
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- 3 100 children were asked to complete a puzzle.

The graph shows how many children had completed the puzzle at the end of each minute.



CHALLENGE

How many children completed the puzzle between 1 and 3 minutes?

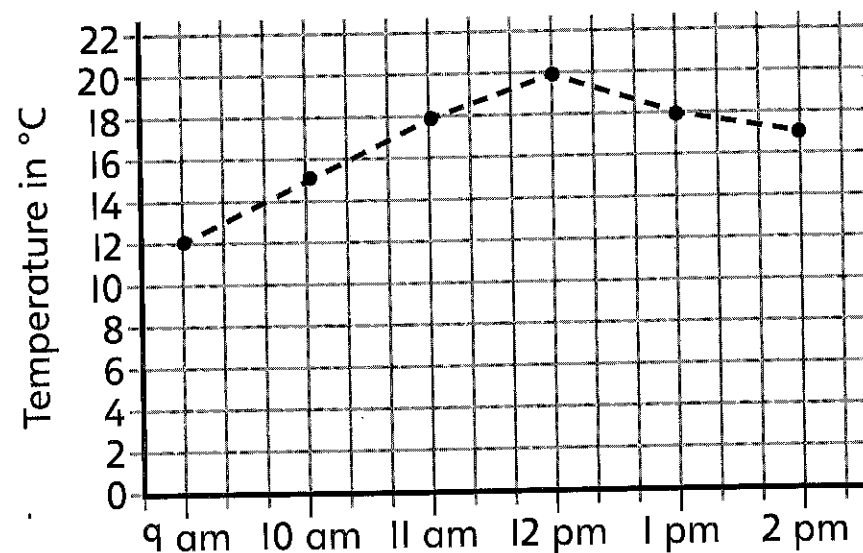
children completed the puzzle between 1 and 3 minutes.

The graph shows that after 7 minutes, everyone had finished the puzzle.



## Reflect

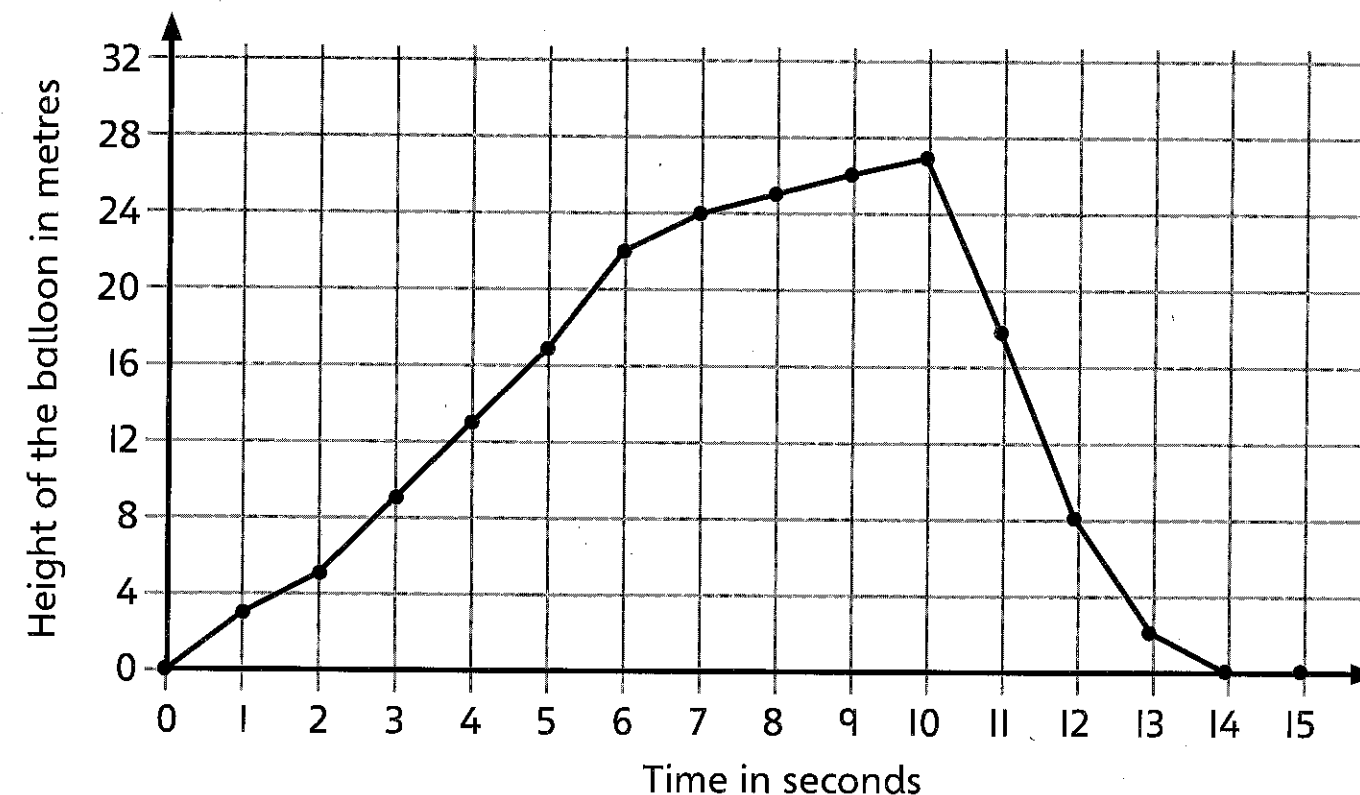
Tell a partner how you would work out the temperature at a particular time on this line graph.



## Interpreting line graphs 2

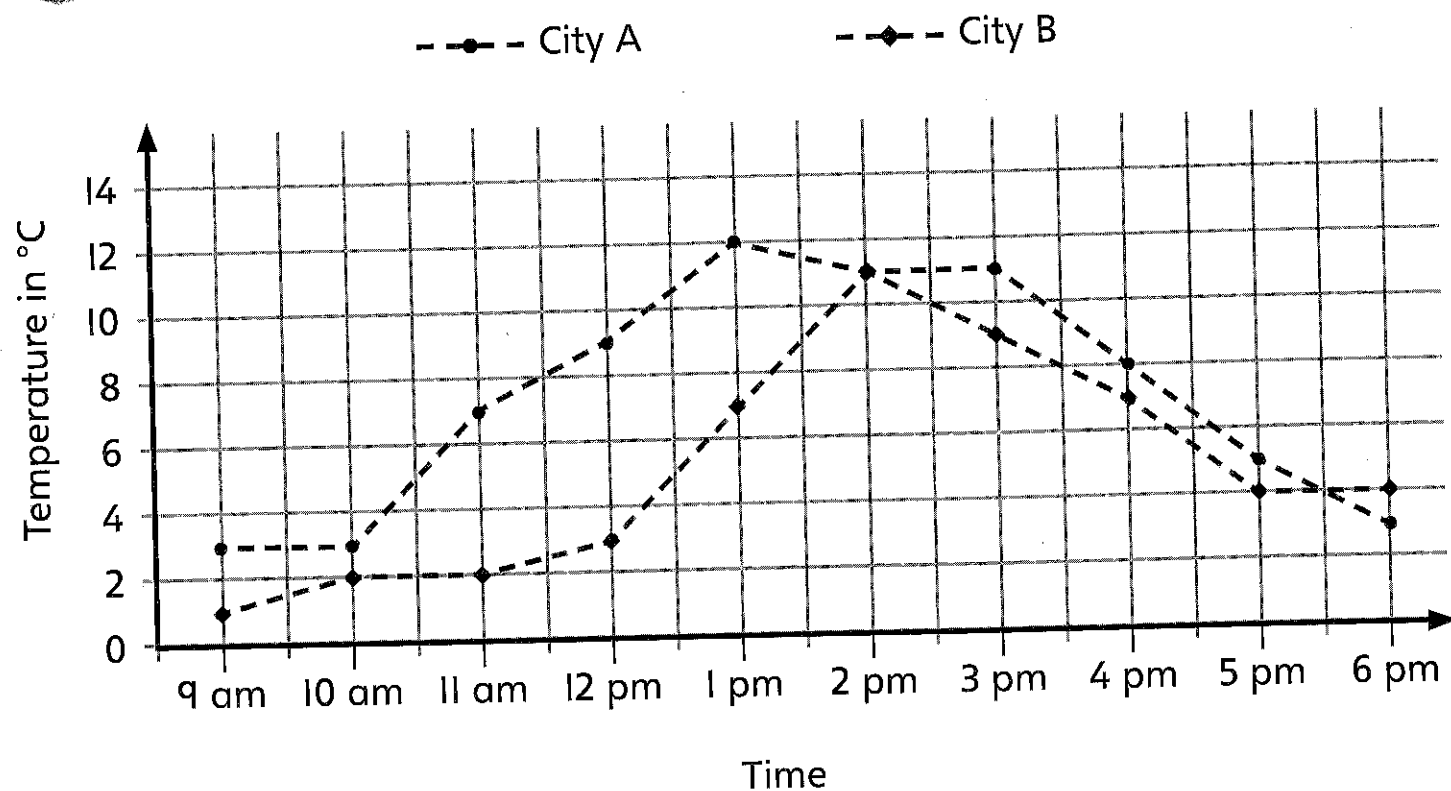
- 1 Lee releases a balloon.

The graph shows the height of the balloon until it bursts and falls.



- What is the height of the balloon after 6 seconds?  m
- What is the height of the balloon after 2 seconds?  m
- How many seconds does it take for the balloon to rise to 9 m?  
 seconds
- After how many seconds does the balloon burst? How do you know?  
The balloon bursts after  seconds because \_\_\_\_\_
- By how many metres does the balloon's height increase between 5 and 10 seconds?  m

- 2 The temperature in two cities was recorded on a day in November.

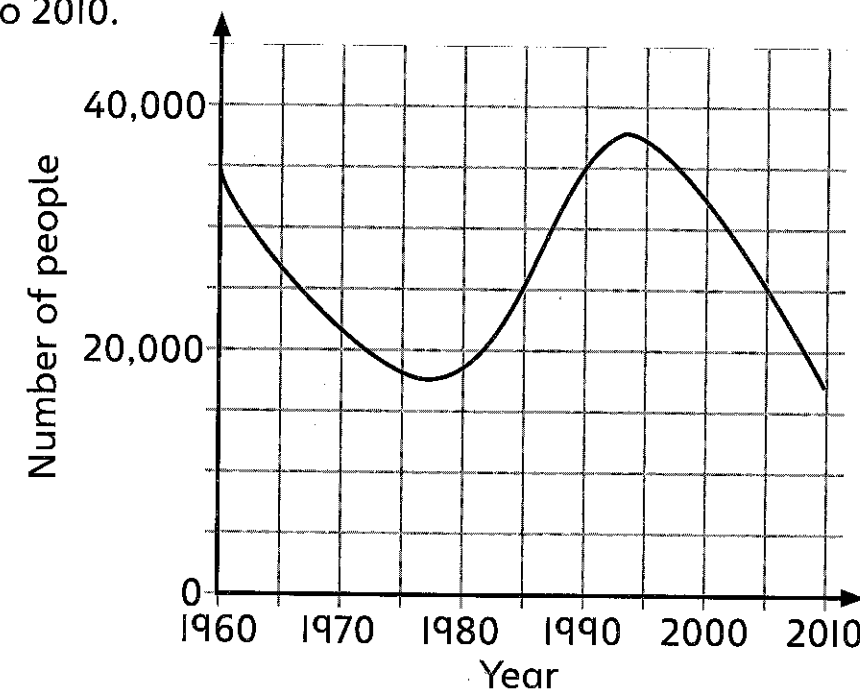


- a) What was the temperature in City A at 11 am?  °C
- b) What was the temperature in City B at 4 pm?  °C
- c) At what time were the temperatures the same? \_\_\_\_\_ am / pm
- d) What was the difference in temperature between the two cities at 12 pm?

The difference in temperature was  °C.

- e) How many hours were **both** cities equal to or warmer than 7 °C?
- Both cities were equal to or warmer than 7 °C for  hours.

- 3 The line graph shows the population of a town from 1960 to 2010.



Estimate the increase in the population of the town from 1980 to 1993.



## Reflect

Max says, 'A line graph starts from zero.'

Is Max's statement always true, sometimes true or never true?

Explain your answer.



# Drawing line graphs

- 1 Toshi and Jen take part in a dance competition.

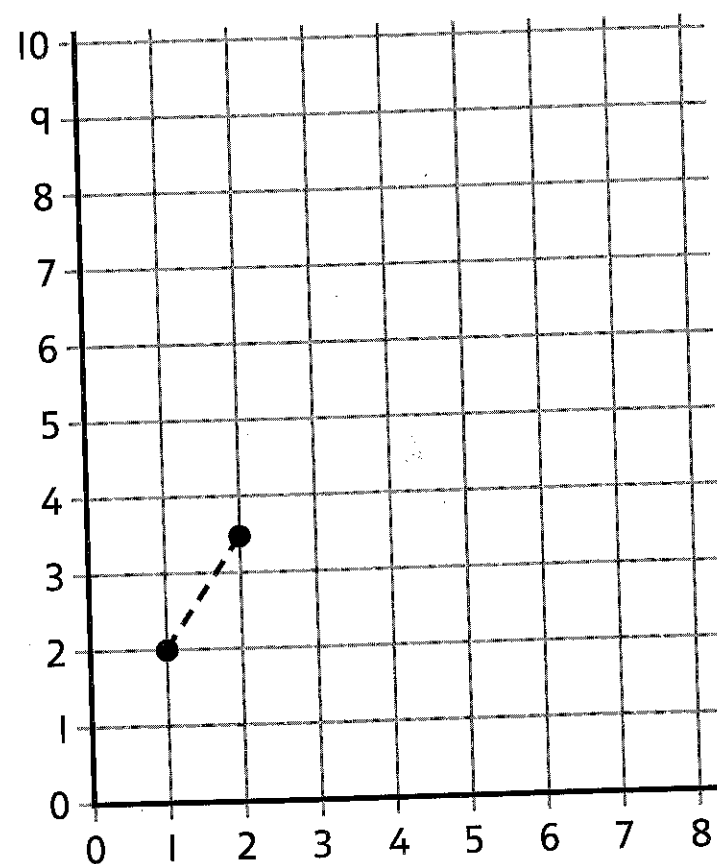
The table shows their total score over 8 weeks.

Week	1	2	3	4	5	6	7	8
Score	2	3.5	4	4	6.5	6	7.5	

- a) Use this table to complete the line graph showing their scores over the 8 weeks.

Make sure you label the axes.

The first two scores have been plotted for you.

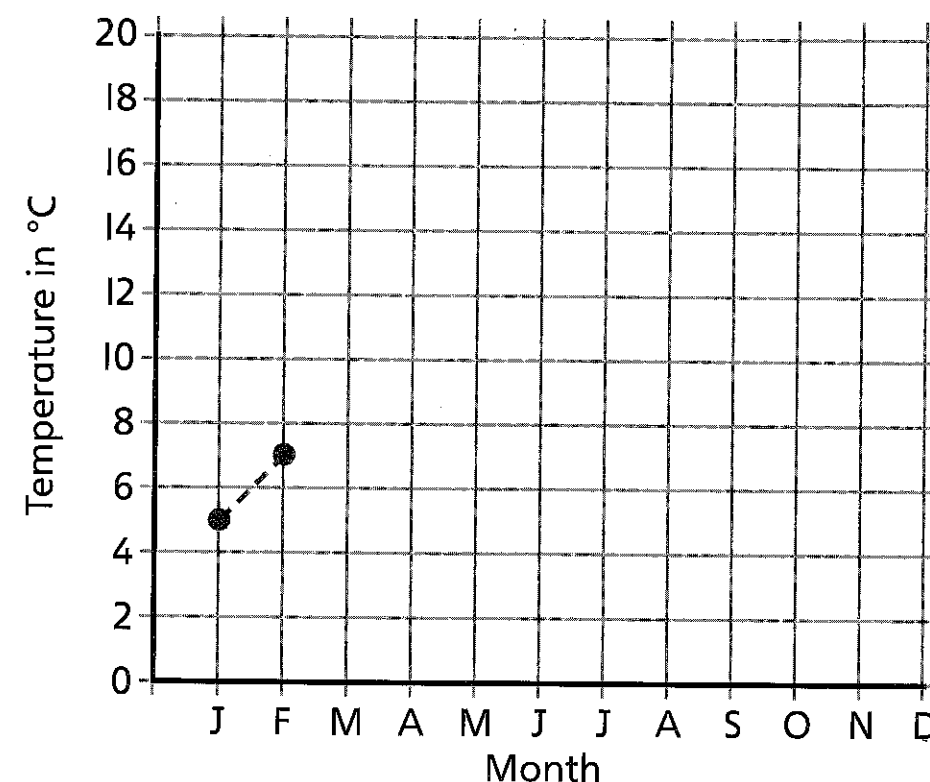


- b) In Week 8, Toshi and Jen scored 1 more point than the previous week.  
Plot Week 8's score on the line graph.

- 2 The table shows the temperature at midday on the first day of each month from January to September.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Temp °C	5	7	9	11	14	16	19	20	17

Complete the line graph below to show this data.



- 3 Draw a line graph to show the value of a car over 5 years.

Year	Value of car
2014	£13,000
2015	£10,500
2016	£9,000
2017	£7,750
2018	£6,250

