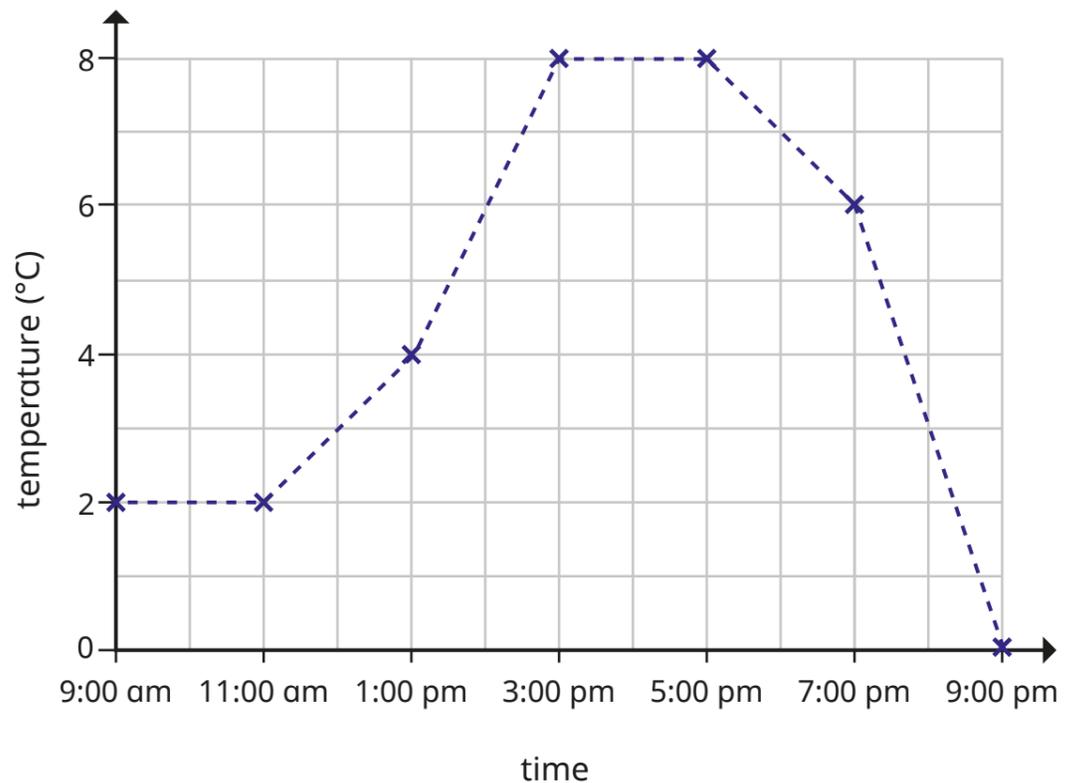


# Line graphs

1 The graph shows the temperature in Birmingham on one day.



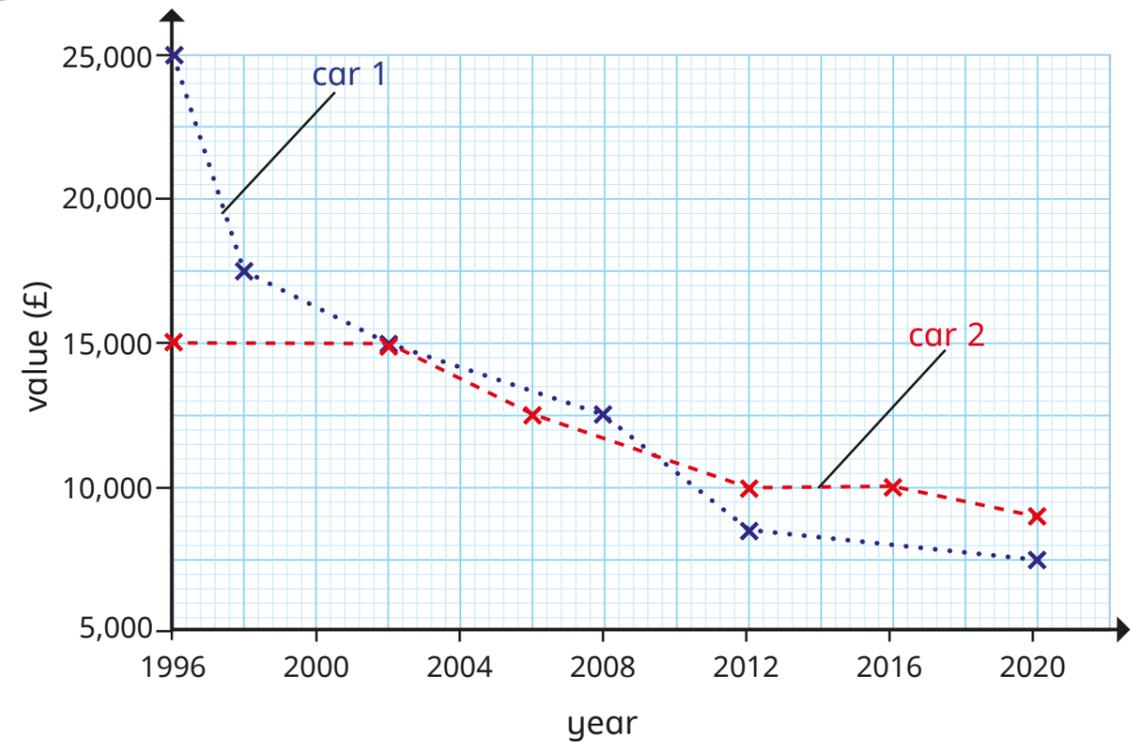
a) What was the temperature at 1:00 pm?

b) What was the difference in temperature between 11:00 am and 1:00 pm?

c) What was the approximate temperature at 8:00 pm?

d) Approximately, by how much did the temperature rise between noon and 2:00 pm?

2 The graph shows the values of two cars over time.



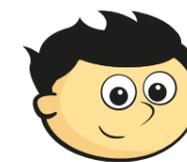
a) In which year was the recorded value of the cars the same?

b) In which two years was the difference in the recorded values of the two cars the same?

c) Which car's value decreased more between 1996 and 2020?

d) For approximately how many years was the value of car 2 greater than the value of car 1?

e)



The value of car 2 halved between 1996 and 2012

Do you agree with Jack? \_\_\_\_\_

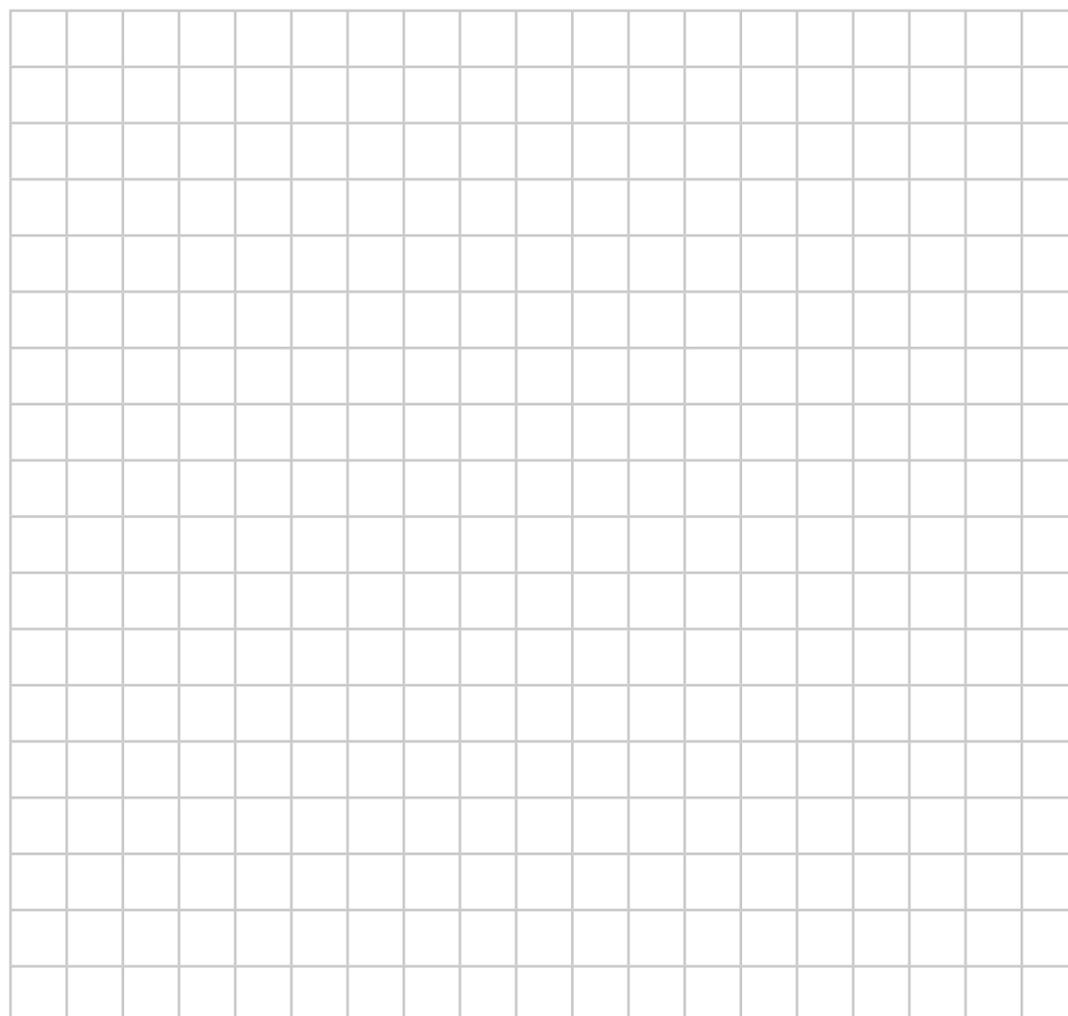
Explain your answer.



3 The table shows the amount of water in two tanks during a day.

Time	Water in tank 1 (litres)	Water in tank 2 (litres)
6:00 pm	3,000	2,500
9:00 pm	3,500	3,100
midnight	4,250	4,000
3:00 am	5,500	5,100
6:00 am	6,000	5,800
9:00 am	2,000	3,100
noon	2,250	2,500
3:00 pm	2,750	2,900

Draw a line graph to represent the information.



4 The height of a hot air balloon is recorded over 60 minutes.

- The hot air balloon starts from the ground at 0 minutes and rises at a steady rate.
- After 15 minutes, the hot air balloon is 500 m above the ground.
- It stays at this height for 10 minutes.
- The hot air balloon then gradually rises to 750 m over the next 15 minutes.
- It stays at this height for 10 minutes.
- For the remainder of the time, the hot air balloon gradually returns to the ground.

Draw the graph of the hot air balloon's journey.

