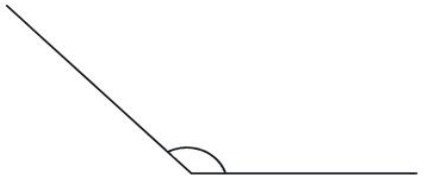
Year 4 Week 9 Lesson 4

Can I interpret a line graph?

Fast Five

1. $\frac{6}{11} + \frac{4}{11} =$
2. 54 x 4 =

3. What type of angle is this?



4. What shape is this?

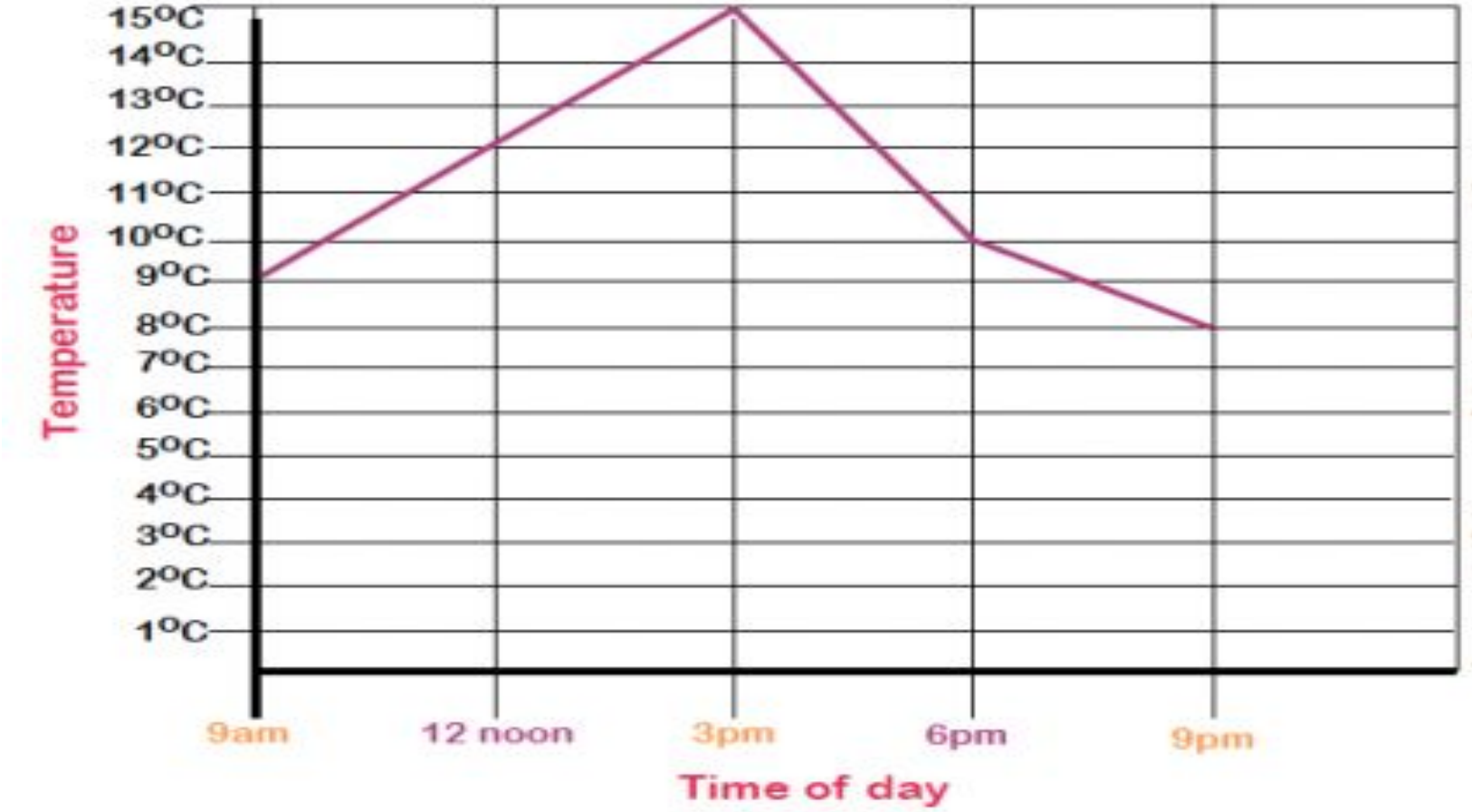
5. How many vertices has it got?

Fast Five - Answers

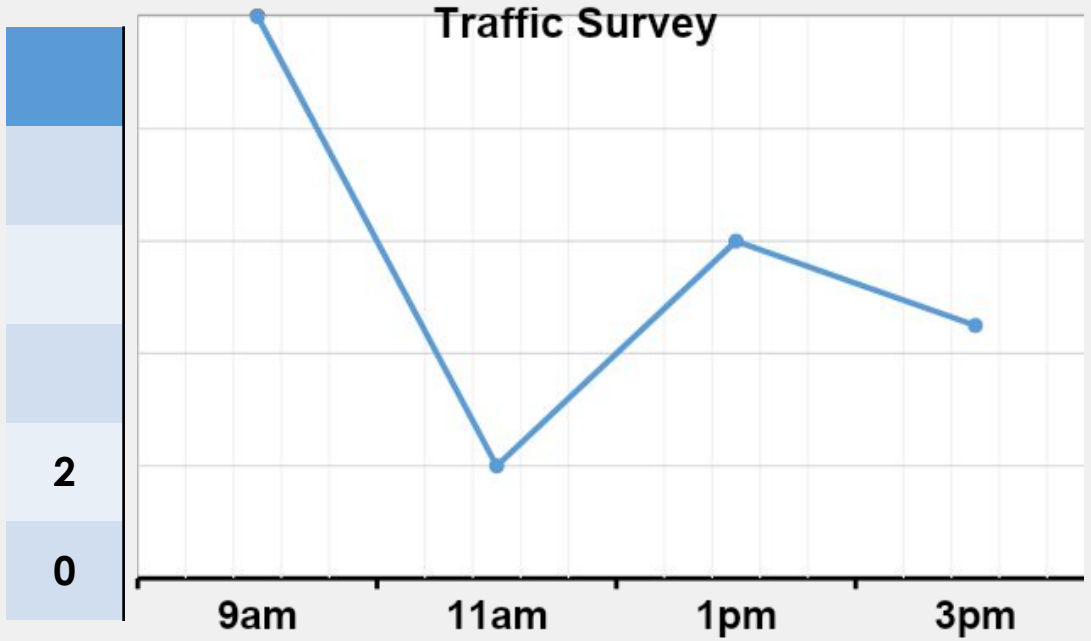
1. 10/11
2. 216
3. Obtuse angle
4. Cuboid (rectangular prism)
5. 8

What is a line graph?

- A line graph is a way of displaying data over time.
- This shows the temperature on 8th March.



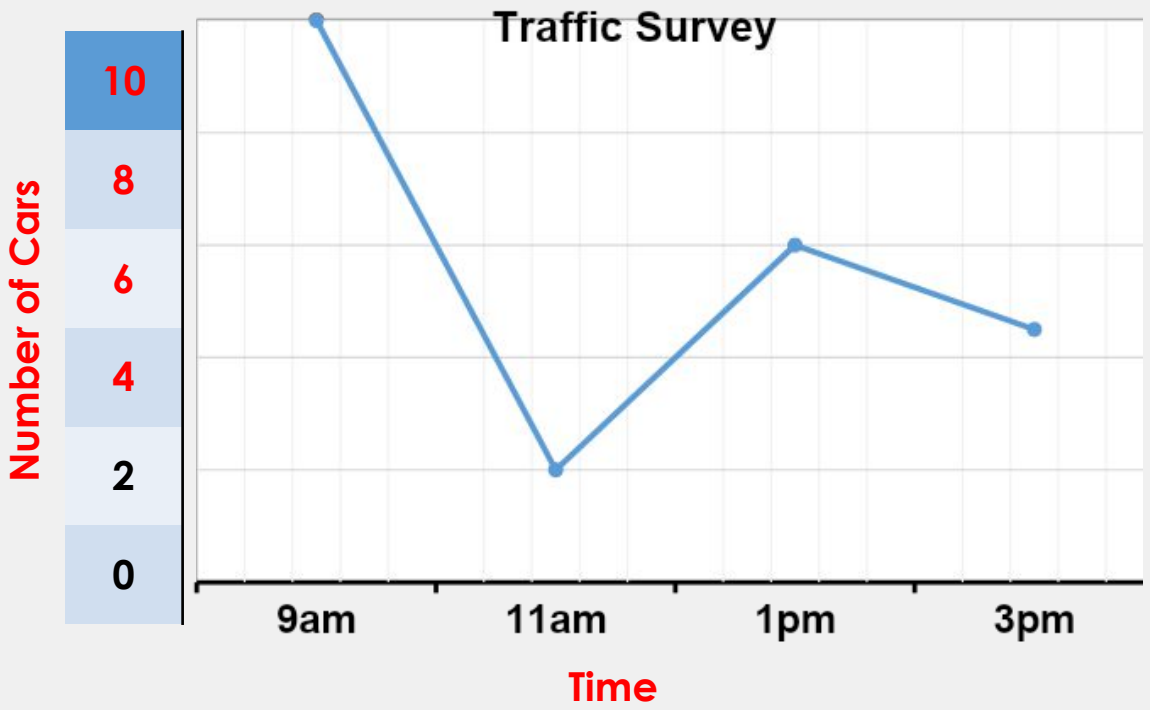
Just like the bar graph we looked at before, it has to be properly labelled. What is missing?



Use the checklist to make sure the line graph has all these items:

☐	Title	☐	Axis Labels	☐	Scales

What is missing?

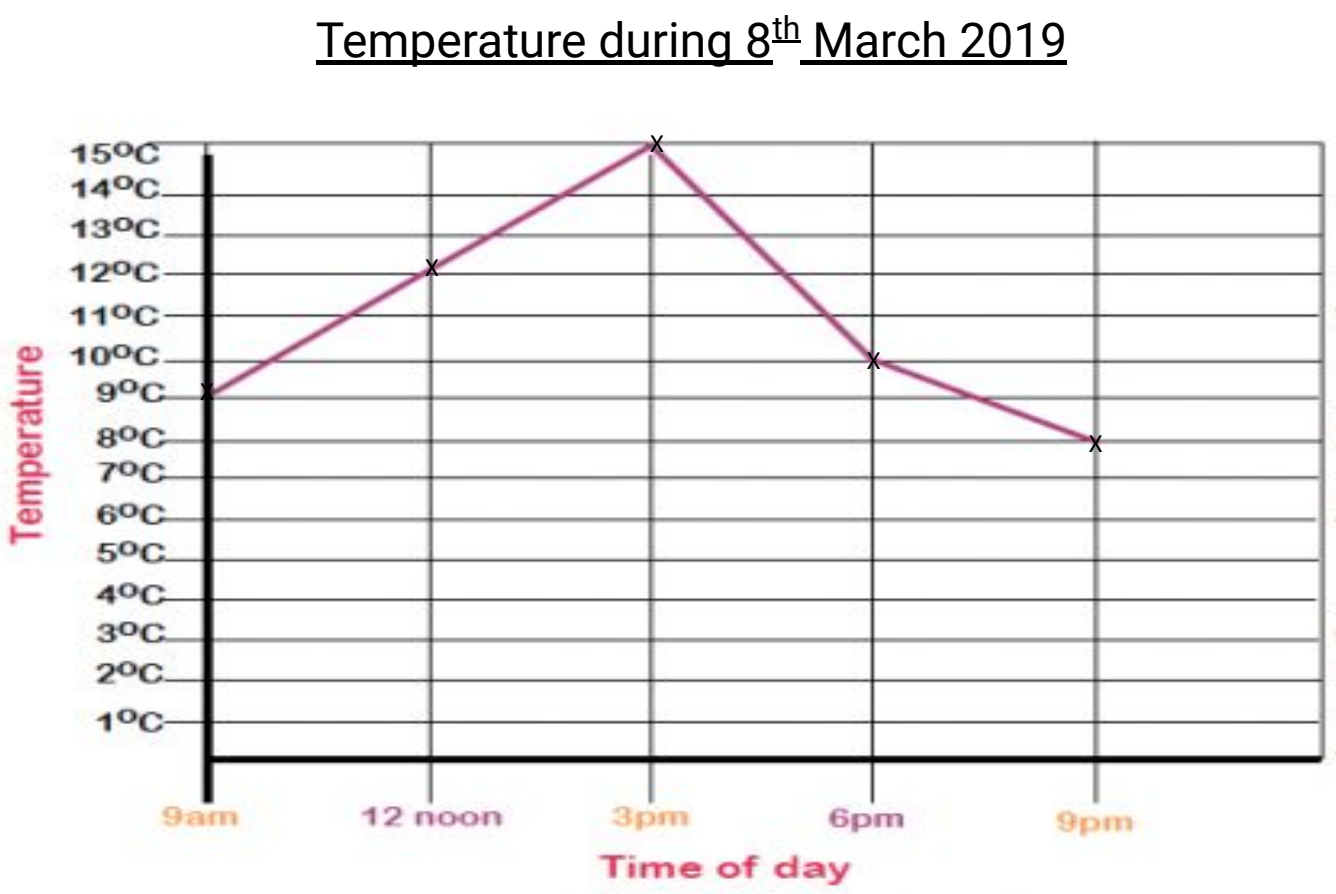


Use the checklist to make sure the line graph has all these items:

✓	Title	✓	Axis Labels	✓	Scales

Line graphs

- Unlike bar graphs, which group data into categories, line graphs plot data over time (which is ongoing/continuous).

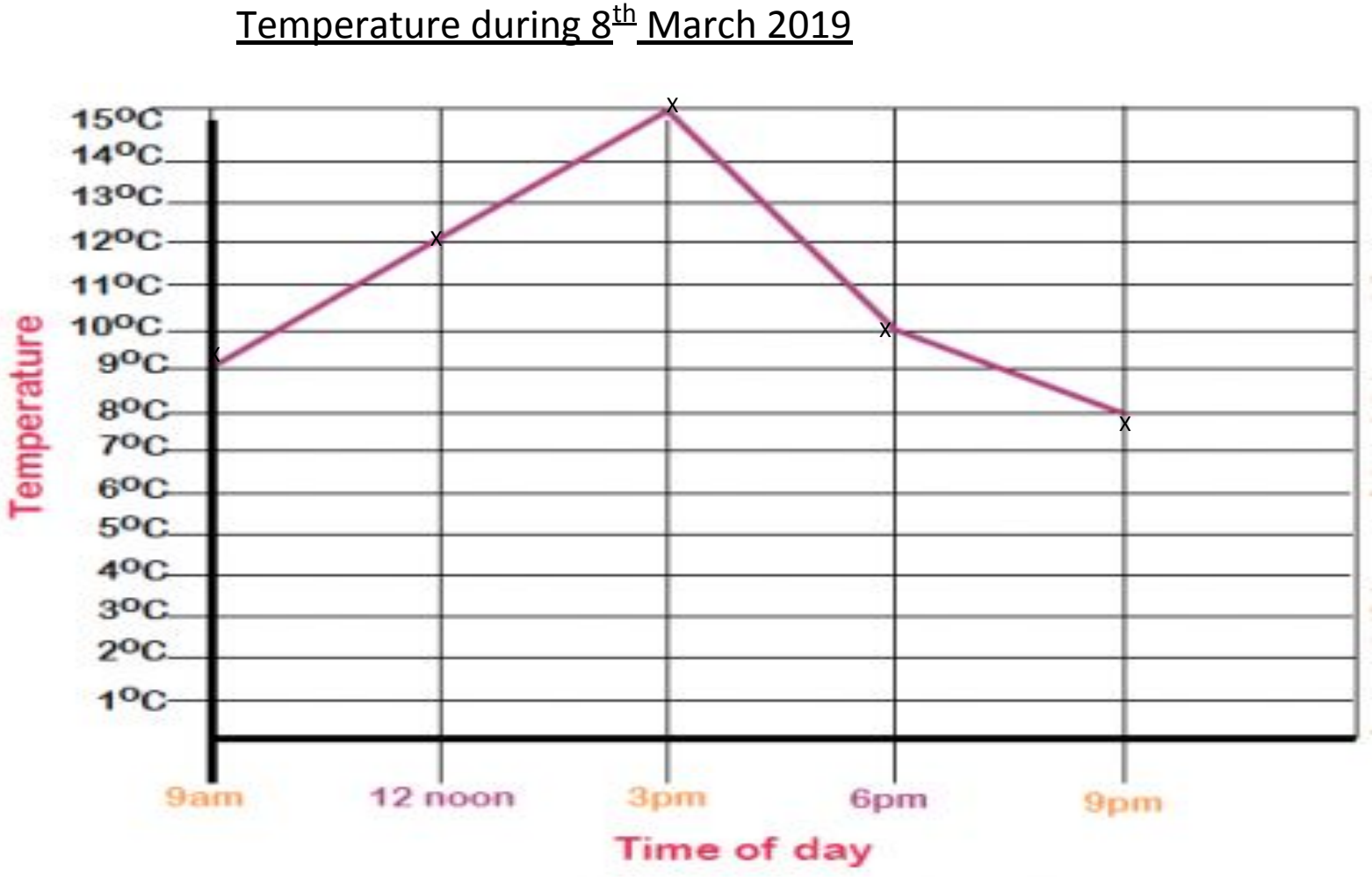


Line graph – you plot the data from the table and record it on the graph.

Temperature during 8th March 2019

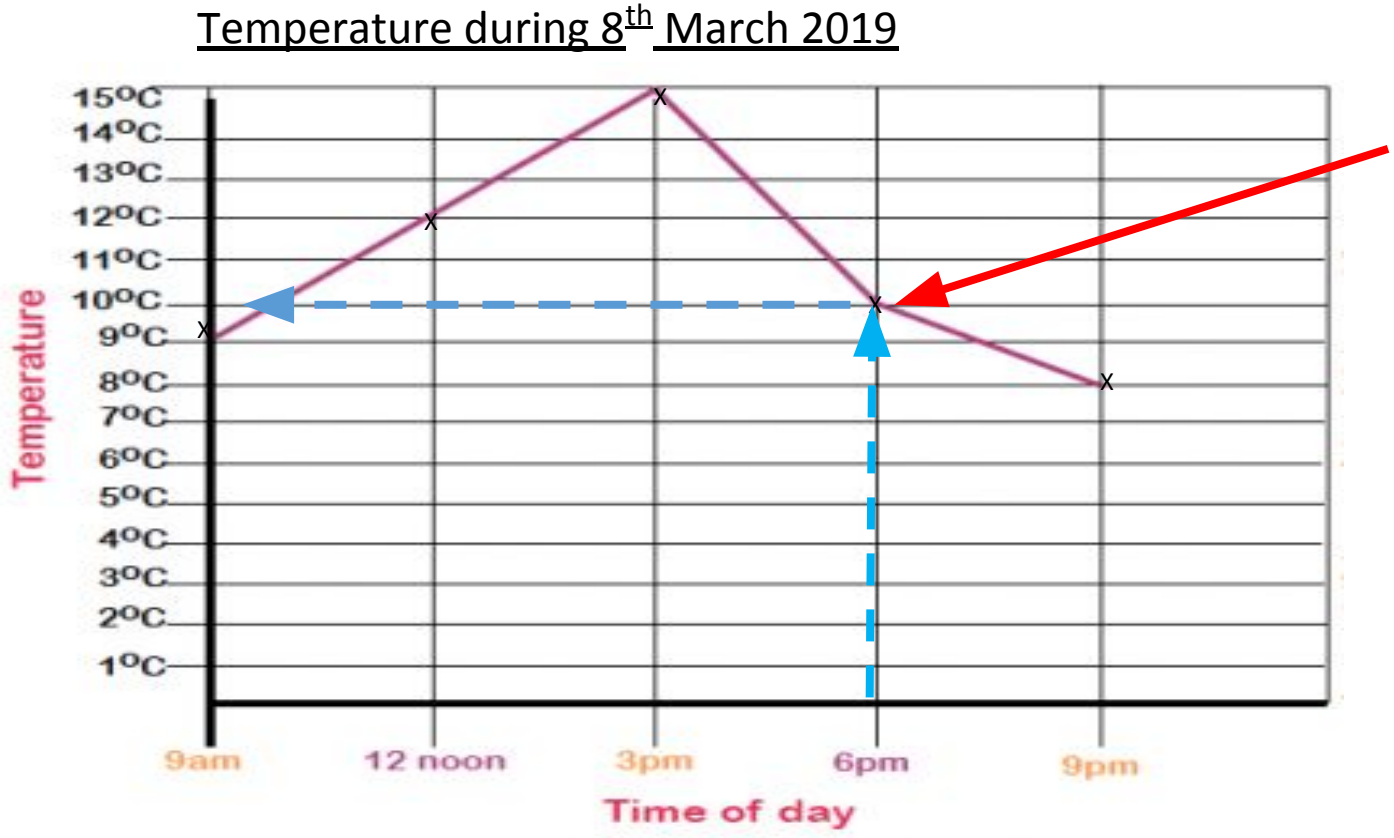
Time of day	Temperature °C
9am	9
12 noon	12
3pm	15
6pm	10
9pm	8

Questions



1. What was the temperature at 6pm?
2. When was the warmest time of the day?
3. When was it coolest?
4. What was the difference between the coolest and warmest time of the day?

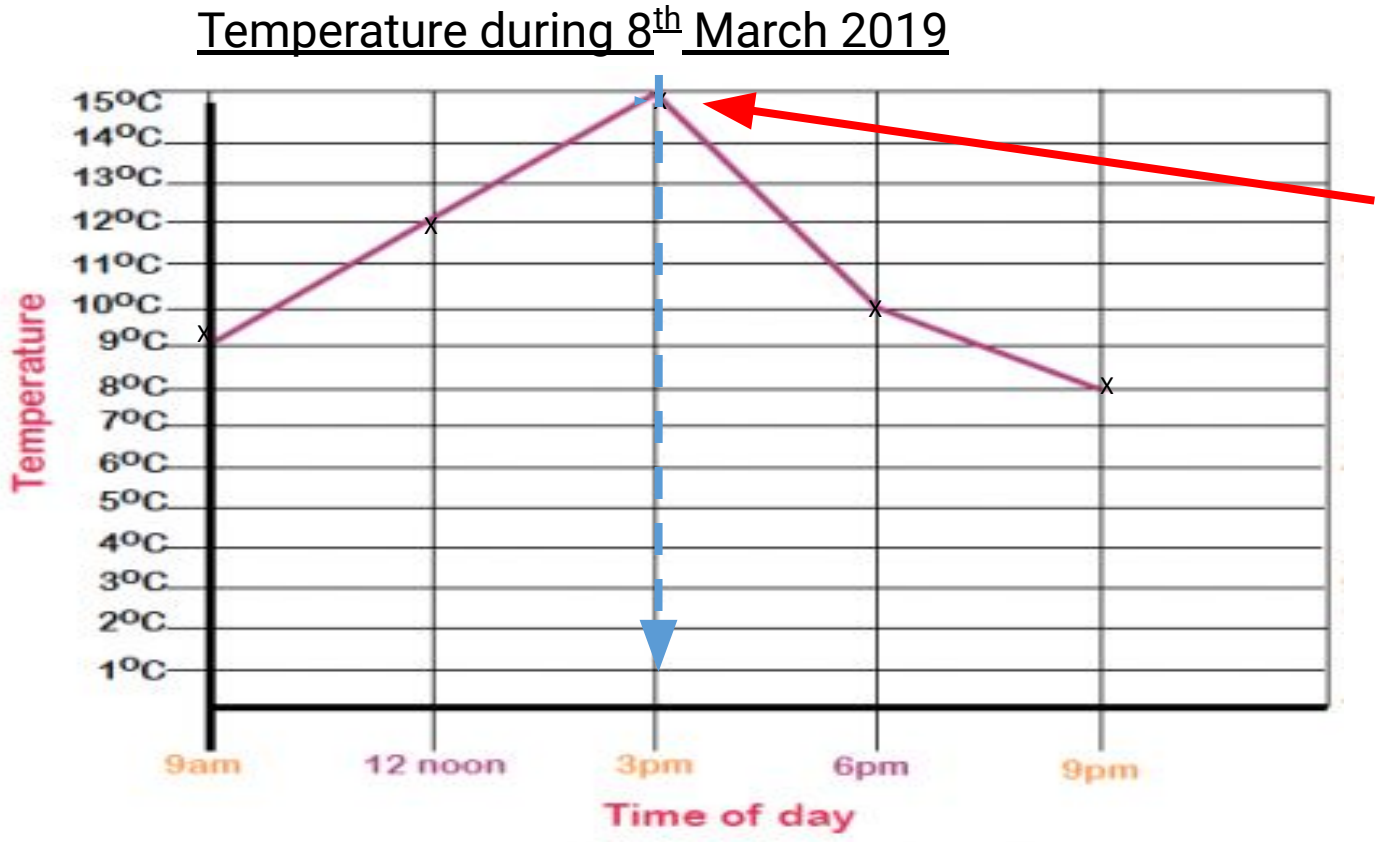
Answers



1. What was the temperature at 6pm?
   - We look at the x axis and find 6pm
   - When we reach the line we read across to find the temperature

10°C

Answers

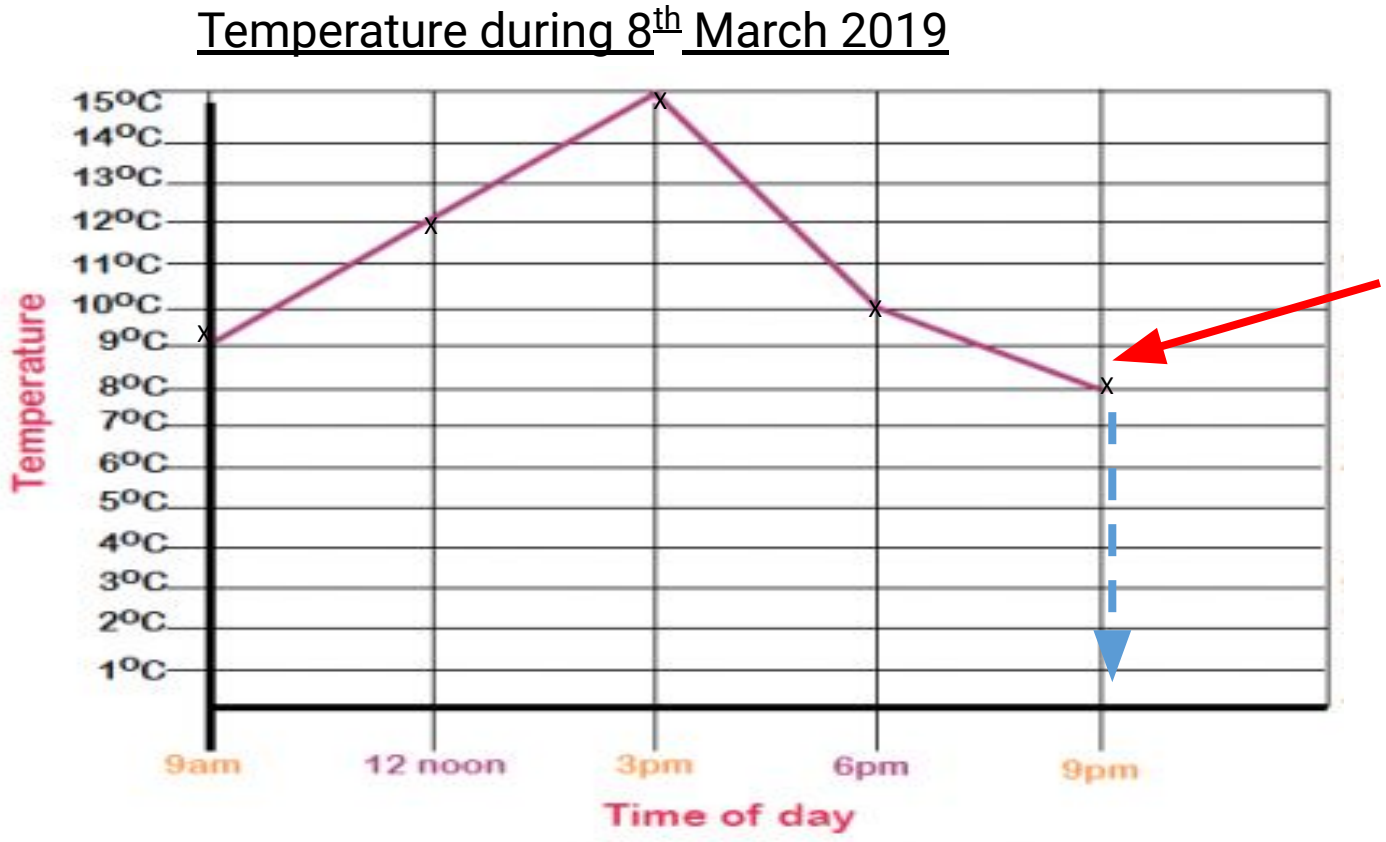


2. When was the warmest time of the day?

- We look to see when the line is at its highest.
- We then look down to find out what the time was.

3pm The line is at its highest.

Answers

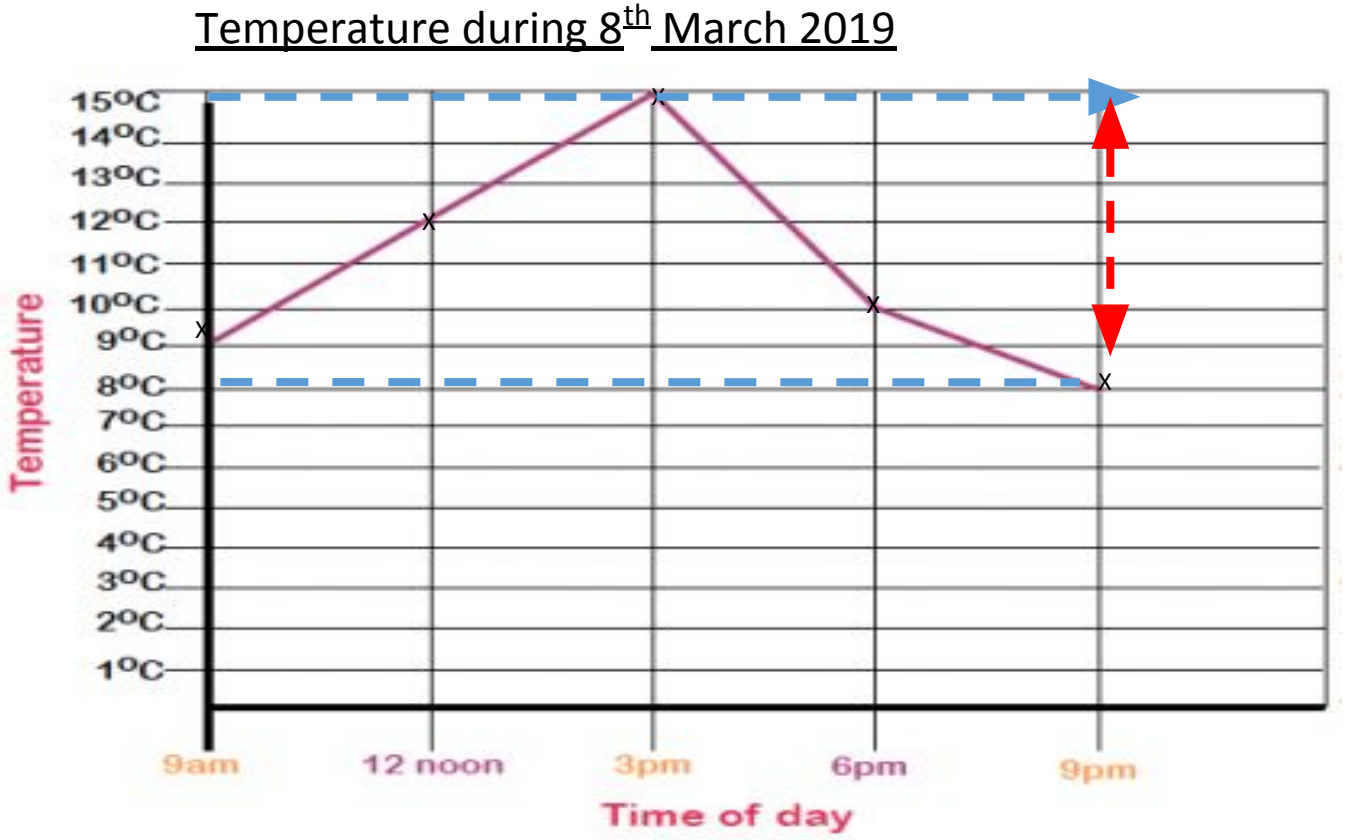


3. When was it coolest?

- We look to see when the line is at its lowest.
- We then look down to find out what the time was.

9pm The line is at its lowest.

Answers



4. What was the difference between the coolest and warmest time of the day?

Step one

Warmest time was 3pm = 15°C

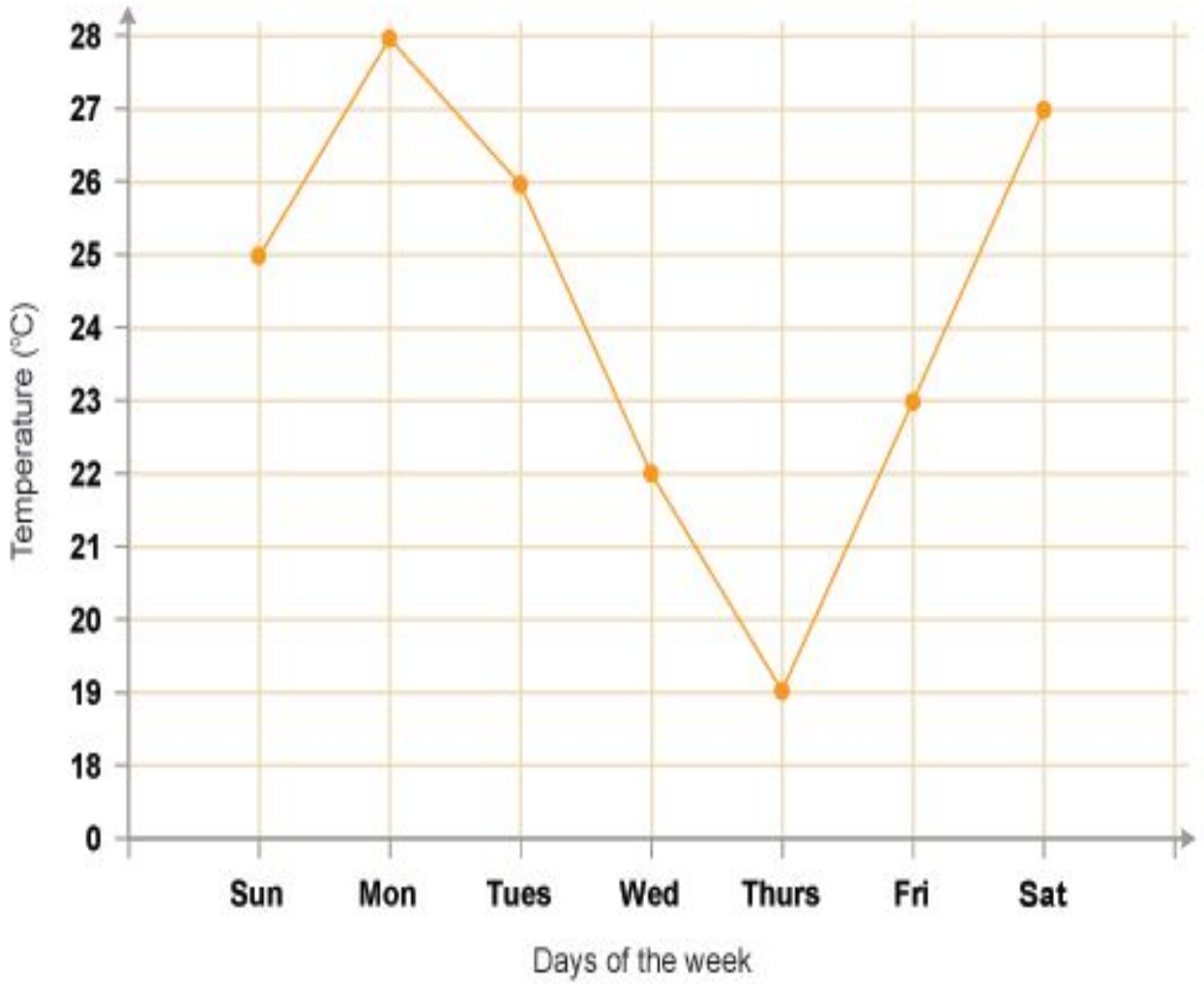
Coolest time was 9pm = 8°C

Step two

15°C - 8°C = 7°C

Questions

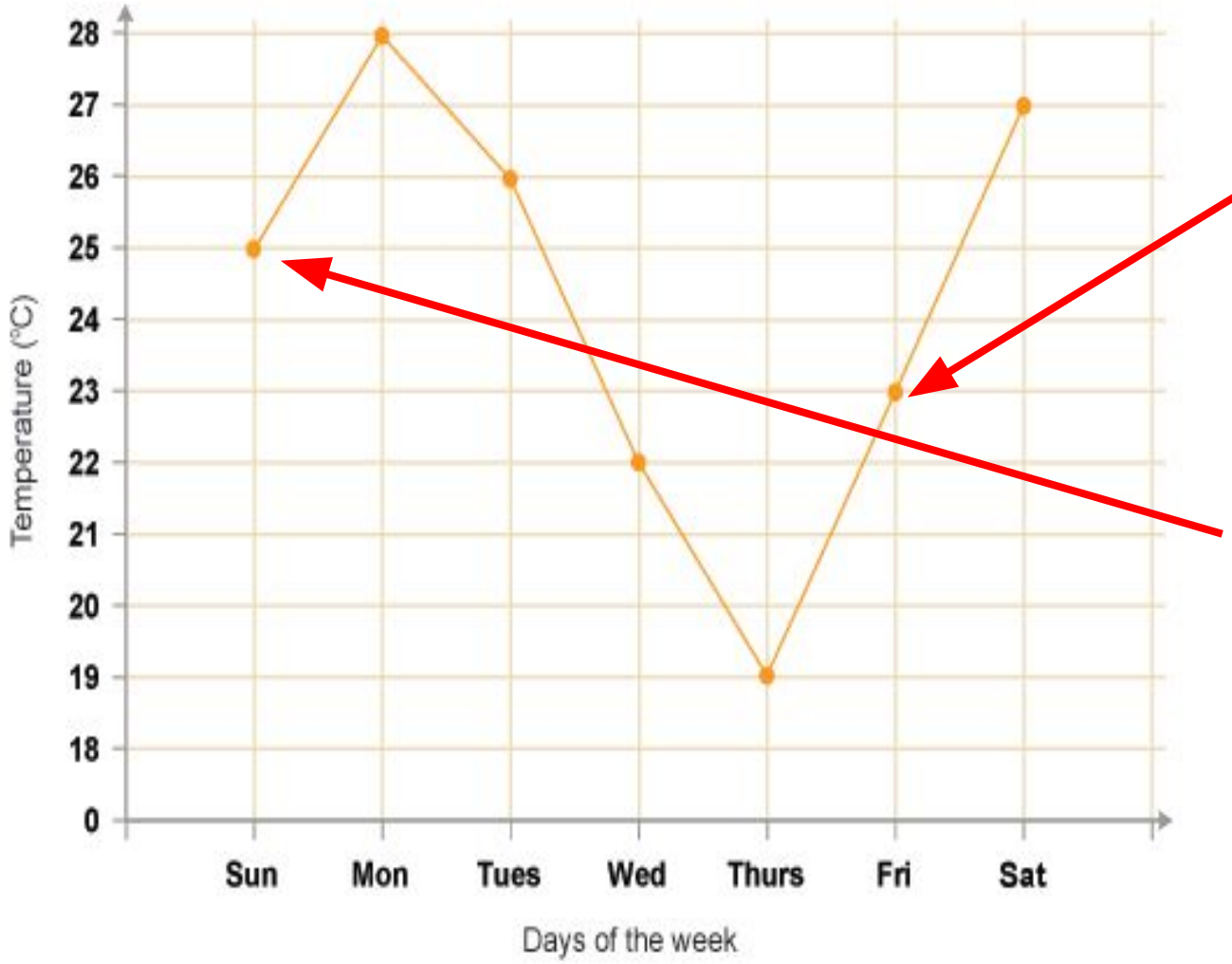
Temperature last week in Spain



1. What was the temperature on Friday?
2. What was the temperature on Sunday?
3. When was it over 25°C?
4. How much hotter was it on Saturday than Wednesday?

Answers

Temperature recorded in Spain last week



1. What was the temperature on Friday?

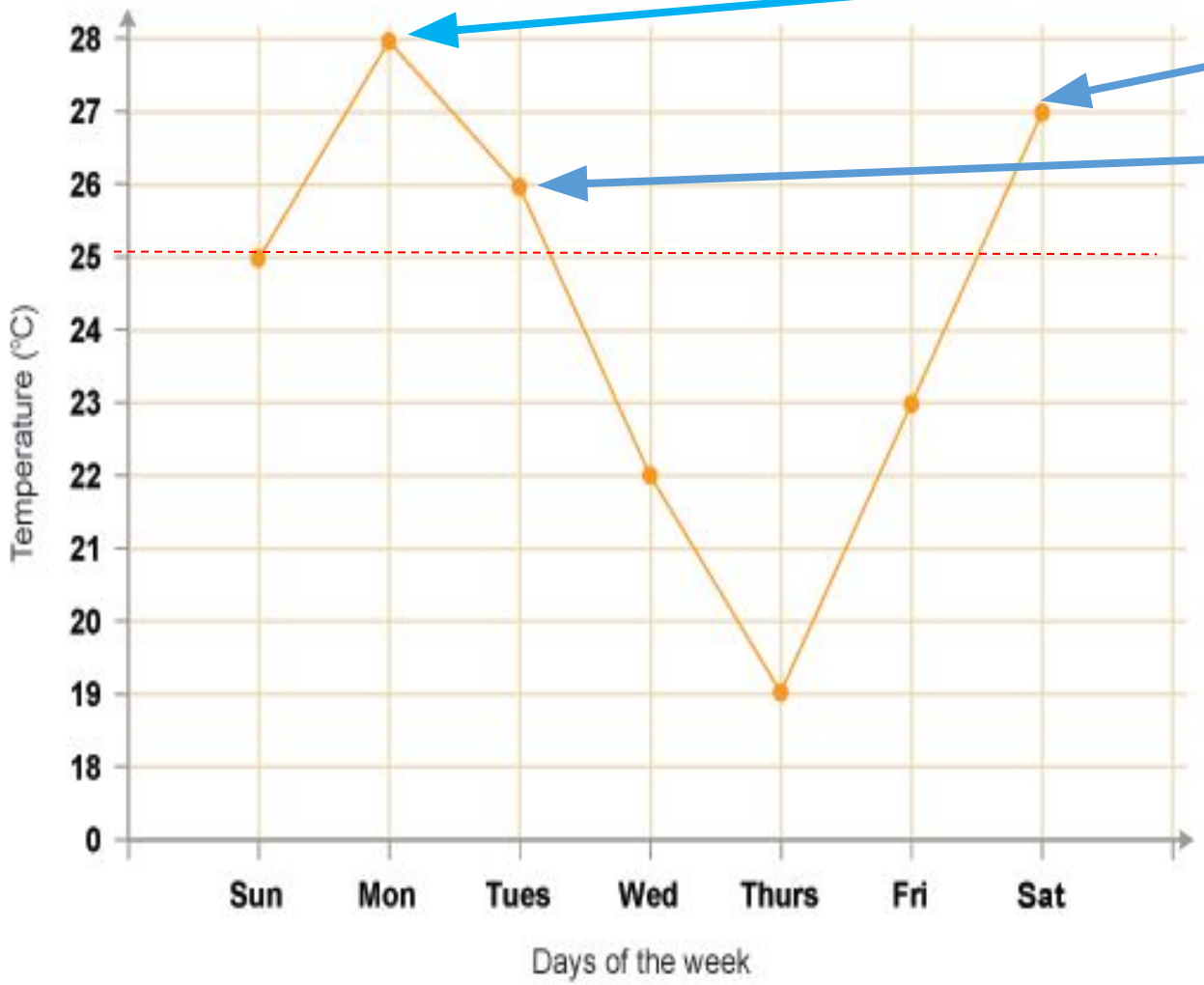
23°C

2. What was the temperature on Sunday?

25°C

Answers

Temperature recorded in Spain last week

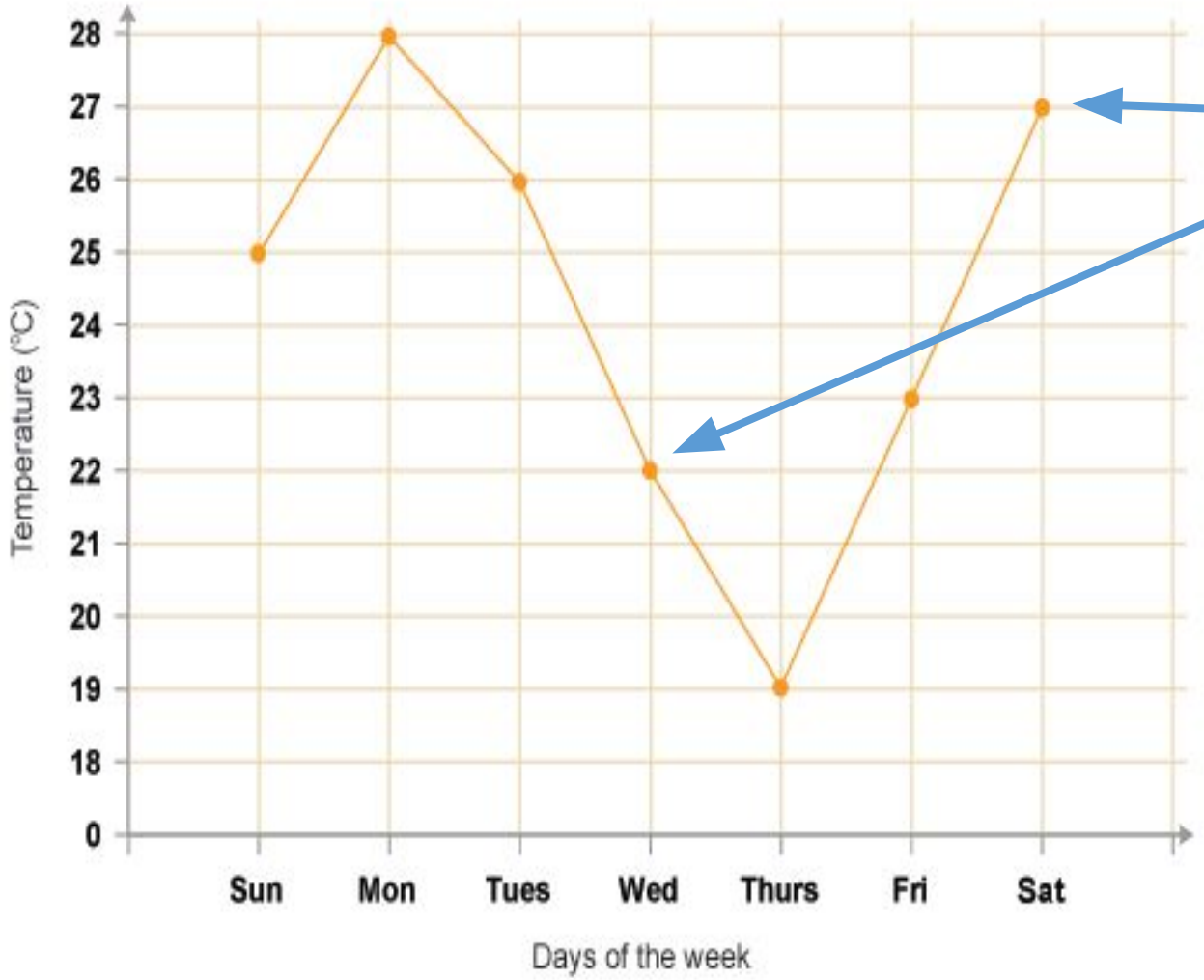


3. When was it over 25°C?

Monday, Tuesday and Saturday

Answers

Temperature recorded in Spain last week



4. How much hotter was it on Saturday than Wednesday?

Step one

Saturday was 27°C

Wednesday 22°C

Step two

Saturday – Wednesday

27°C - 22°C = 5°C