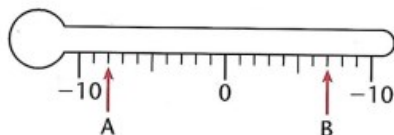


TARGET To use negative numbers in the context of temperature and calculate across zero.

Example

Find the difference in temperature between A and B.

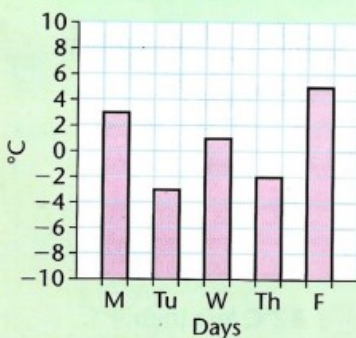
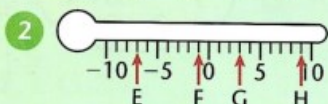
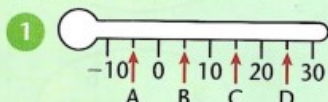


$$\begin{aligned} A &= -8^{\circ}\text{C} & -8^{\circ}\text{C} \rightarrow 0^{\circ}\text{C} &= 8^{\circ}\text{C} \\ B &= 7^{\circ}\text{C} & 0^{\circ}\text{C} \rightarrow 7^{\circ}\text{C} &= 7^{\circ}\text{C} \\ & & -8^{\circ}\text{C} \rightarrow 7^{\circ}\text{C} &= (8 + 7)^{\circ}\text{C} = 15^{\circ}\text{C} \end{aligned}$$

Answer 15°C

A

Write the temperature shown by each letter.

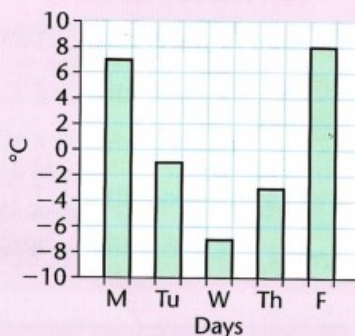
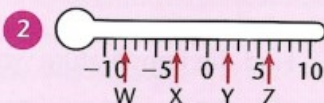
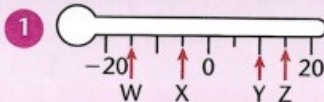


- 3 What was the coldest temperature recorded?
- 4 On which days was the temperature below 0°C ?
- 5 What was the fall in temperature from:
 - a) Monday to Tuesday
 - b) Wednesday to Thursday?
- 6 What was the rise in temperature from:
 - a) Tuesday to Wednesday
 - b) Thursday to Friday?

B

For each thermometer, find the difference between:

- a) X and Z
- b) W and Y
- c) X and Y
- d) W and Z.



- 3 What was the fall in temperature from:
 - a) Monday to Tuesday
 - b) Tuesday to Wednesday?
- 4 What was the rise in temperature from:
 - a) Wednesday to Thursday
 - b) Thursday to Friday?

C

- 1 Copy and complete this table showing the maximum and minimum temperatures for different places.

Max.	Range	Min.
17°C	22°C	-5°C
28°C	46°C	
11°C	54°C	
-4°C	23°C	
46°C	52°C	
2°C		-37°C
35°C		-16°C
53°C		-7°C
-9°C		-23°C
	66°C	-35°C
	47°C	-54°C
	53°C	-28°C
	28°C	-41°C

- 2 Find the range between the highest and lowest temperature ever recorded in each UK country.

Country	High	Low
England	38.5°C	-26.1°C
Scotland	32.9°C	-27.2°C
Wales	35.2°C	-23.3°C
N.I.	30.8°C	-18.7°C