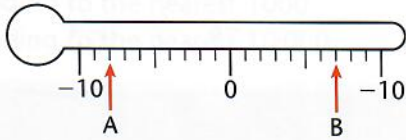**TARGET** To use negative numbers in the context of temperature and calculate across zero.

Example
Find the difference in temperature between A and B.
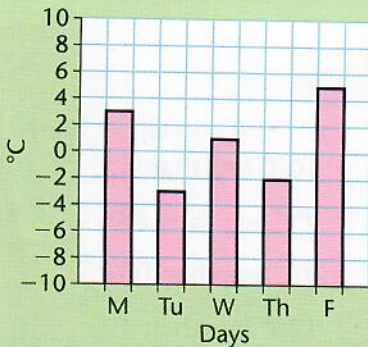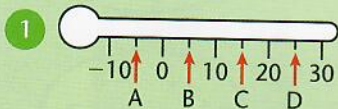

A = −8°C　−8°C → 0°C = 8°C
B = 7°C　　0°C → 7°C = 7°C
　　　　　−8°C → 7°C = (8 + 7)°C = 15°C

Answer *15°C*

A

Write the temperature shown by each letter.
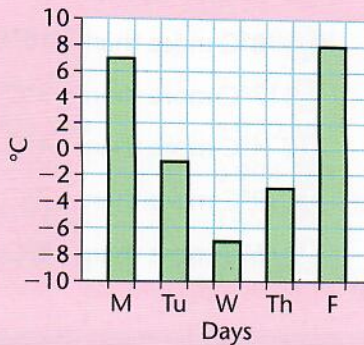
1

−10　0　10　20　30
A　B　C　D

2

−10 −5　0　5　10
E　F　G　H

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.

1

−20　0　20
W　X　Y Z

2

−10 −5　0　5　10
W　X　Y　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