

NEGATIVE NUMBERS

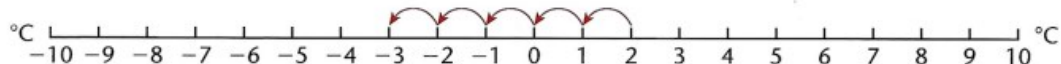
8

TARGET To count forwards and backwards through zero and to interpret negative numbers in context.

Negative numbers
Below zero
Have a minus sign



Positive numbers
Above zero



We often use negative numbers in the context of temperature.

Example The temperature is 2°C . It falls 5°C .
What is the new temperature? Answer -3°C

A

Use the number line above.

- | | | |
|-------------------------|------------------------|--------------------------|
| 1 Count on 3 from -8 | 5 Count on 4 from -3 | 9 Count on 5 from -6 |
| 2 Count on 6 from -10 | 6 Count on 3 from -5 | 10 Count on 10 from -3 |
| 3 Count on 4 from -1 | 7 Count on 7 from -7 | 11 Count on 6 from -8 |
| 4 Count on 6 from -4 | 8 Count on 8 from -2 | 12 Count on 9 from -5 |

Copy and complete by filling in the boxes.

- | | | | | | | | | | | | |
|----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 13 | -5 | -4 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | 1 | <input type="text"/> | 3 | <input type="text"/> | 5 |
| 14 | <input type="text"/> | <input type="text"/> | -6 | -4 | <input type="text"/> | 0 | <input type="text"/> | <input type="text"/> | 6 | <input type="text"/> | 10 |
| 15 | <input type="text"/> | <input type="text"/> | 3 | 2 | <input type="text"/> | <input type="text"/> | -1 | -2 | <input type="text"/> | -4 | <input type="text"/> |
| 16 | 10 | <input type="text"/> | <input type="text"/> | <input type="text"/> | 2 | 0 | -2 | <input type="text"/> | <input type="text"/> | <input type="text"/> | -10 |



Look at the scale.

- 17 What temperatures are shown by the letters?
- 18 Which letter shows the coldest temperature?
- 19 Give the difference in temperature between:
- A and B
 - B and C
 - A and C
- 20 What would the temperature be if it was:
- at B and rose 5°
 - at A and rose 6°
 - at B and fell 4°
 - at C and fell 5°

