Integers Example

Track a temperature rise and drop using signed integers.

PROBLEM

-7 + 12 - 5

Step-by-step solution

1

Combine the start and rise

Move 12 units right from -7 on the number line.

-7 + 12 = 5

2

Apply the drop

A decrease of five is represented by adding -5.

5 + (-5) = 0

3

Read the final value

The temperature ends at the Celsius freezing point.

-7 + 12 - 5 = 0

4

Check the net change

The total change is +7 degrees.

-7 + 7 = 0

ANSWER

The final temperature is 0 degrees C.

Net change: 12 + (-5) = 7.

The exact form and verification are shown above.