

Negative Numbers & the Thermometer

The thermometer down the side of the page can be a great help when studying negative numbers.

Be able to use a thermometer to help with negative numbers

Exercise 2

1. Make a neat copy of this thermometer in your jotter.

2. Look at your thermometer.

What is the temperature that is :-

- | | | | |
|---|---------------------|---|----------------------|
| a | 2°C up from 17°C | b | 12°C up from 0°C |
| c | 18°C up from 3°C | d | 7°C down from 13°C |
| e | 12°C down from 22°C | f | 3°C up from -1°C |
| g | 7°C down from -3°C | h | 11°C up from -6°C |
| i | 9°C down from 2°C | j | 18°C down from 0°C |
| k | 12°C down from -7°C | l | 16°C down from -5°C |
| m | 8°C up from -11°C | n | 28°C up from -29°C ? |

3. 6°C is 14°C up from -8°C.

Copy and complete these in the same way :-

(say whether it's .. up from or .. down from each time)

- | | | | |
|---|----------------------------|---|----------------------------|
| a | 7°C is°C up from 1°C | b | 12°C is from 17°C |
| c | 0°C is from 15°C | d | 8°C is from -1°C |
| e | -9°C is from 0°C | f | 4°C is from -11°C |
| g | -21°C is from -14°C | h | -3°C is from 10°C |
| i | 40°C is from -40°C | j | -62°C is from -50°C. |

4.



One winter's day in Dumfries, the temperature was -8°C.

In Aviemore it was 7° colder.

What was the temperature in Aviemore ?

5.

As I left my hotel room in Alaska the temperature was 21°C.

When I stepped outside sixty seconds later, the cold temperature of -23°C hit me immediately !

What was the difference in temperatures over those sixty seconds ?

