

Y5 Negative Numbers

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

At midnight it was -6°C . By noon it had risen by 10°C . What was the temperature at noon?

Step 1 · Start at -6 on a number line

Rising means count up

Step 2 · 6 steps up reaches 0

4 more steps to go

Step 3 · 4 steps past 0

4

Answer: 4°C

Check: From -6 to 4 is $6 + 4 = 10$ steps ✓

2. Now try one with the steps

It is 3°C . The temperature falls by 8°C . What is the new temperature?

Step 1 · 3 steps down reaches 0

Step 2 · 5 steps below 0

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Which is colder: -8°C or -3°C ?

2. Order from coldest to warmest: 2°C , -5°C , 0°C , -1°C , -9°C

3. It is -2°C . The temperature rises by 6°C . What is it now?

4. It is 4°C . The temperature falls by 9°C . What is it now?

5. Count back in 3s from 7. Write the next four numbers.

6. What is the difference between -4°C and 6°C ?

7. A freezer is at -18°C . A fridge is at 4°C . How many degrees warmer is the fridge?

8. Fill in the missing number: $-10, -6, -2, \underline{\quad}, 6$

9. It was -7°C at 6 am. By 3 pm it was 5°C . How much did the temperature rise?

10. It is -3°C . The temperature falls by another 9°C . What is it now?

11. The lowest floor of a car park is level -3 . Josh takes the lift from level -3 up to level 4. How many levels does he go up?

12. Two temperatures are 15 degrees apart. One is 6°C . The other is below zero. What is it?

13. Which number is exactly halfway between -8 and 2 ?

14. A diver is 12 m below sea level (-12 m). She rises 5 m, then sinks 8 m. Where is she now?

4. Before you hand it in

Thinking -8 is bigger than -3 because 8 is bigger than 3.

On a number line, -8 is further left (further below zero), so $-8 < -3$.

Saying the difference between -12°C and 5°C is 7°C .

From -12 to 0 is 12, and from 0 to 5 is 5. The difference is $12 + 5 = 17$.

Counting back from 1 in 4s as 1, -4, -8.

Count each jump on a number line: $1 \rightarrow 0$ is one step. $1 - 4 = -3$.

Writing a temperature of minus three as 3-.

The minus sign goes in front: -3°C .