



CLASS 6 MATHS · 2026-27

Integers and the number line

Integers

34

QUESTIONS

25

MINUTES

3

EXERCISES

This belongs to _____ Date _____

WHAT YOU'LL GET GOOD AT

- Places any integer on a number line and compares two integers
- Adds and subtracts integers using a model rather than a memorised rule
- Explains why a particular answer is negative

Take your time, and have a go at every one. If you get stuck, look at the orange box — Ollie has already done one for you.

Integers and the number line

Integers · 34 questions · tick each box as you finish

Exercise 1 of 3 · 12 questions Write each set in order, smallest first.



WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

3, -7, 0, 5, -2 -> -7, -2, 0, 3, 5. On a number line, further left is always smaller. The second set catches most children: -18 is smaller than -3, because a larger digit after a minus sign means further left, not bigger. Drawing the line once fixes this permanently.

1) 3, -7, 0, 5, -2	2) -12, -3, -18, -9
3) 8, -8, 1, -1, 0	4) -45, 45, -54, 54
5) 6, -6, 2, -11, 0	6) -30, -13, -25, -8
7) 17, -17, -71, 71	8) -1, -100, -10, 0
9) 9, -4, -9, 4, -14	10) -60, 16, -16, 60, 0
11) 23, -32, -23, 32	12) -5, -50, 5, 50, -55

Exercise 2 of 3 · 12 questions Work these out. Show the step.

WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

$(-6) + 4$ -> start at -6 on the line and move 4 steps right, because adding moves right. You land on -2. For $(-8) - (-5)$: subtracting a negative moves right, so start at -8 and move 5 right, giving -3. Teach the two moves - add goes right, subtract goes left, and a second minus flips the direction - rather than four separate rules.

1) $(-6) + 4$

2) $5 + (-9)$

3) $(-3) - 7$

4) $(-8) - (-5)$

5) $12 + (-12)$

6) $(-4) - (-11)$

7) $(-15) + 8$

8) $7 + (-13)$

9) $(-9) - 6$

10) $(-20) - (-14)$

11) $(-11) + 11$

12) $(-5) - (-17)$

Exercise 3 of 3 · 10 questions Answer each one. Write the calculation, then the answer. ☐

WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

Temperature 5, falls by 9 $\rightarrow 5 - 9 = -4$, so -4 degrees. The maths is the easy part; turning the sentence into a calculation is the skill. Look for the word that tells you the direction - fell, rose, owes, down - and let it choose the sign before writing anything.

1) The temperature was 5 degrees and fell by 9 degrees. What is it now?

2) A lift is on the 3rd floor and goes down 7 floors. Where is it?

3) A submarine at -120 m rises 45 m. What is its depth now?

4) Rahul owes 250 rupees and then earns 400. What is his position?

5) A town was at 8 degrees at noon and dropped 14 degrees by night. What was the night temperature?

6) A diver at -30 m goes down another 25 m. What depth is she at?

7) A basement lift starts at -2 and rises 9 floors. Which floor is it on?

8) Meera has 180 rupees and spends 260. What is her position?

9) A mountain peak is 2,400 m above sea level and a mine is 350 m below it. What is the difference in height?

10) The temperature rose from -6 degrees to 7 degrees. By how much did it rise?

**All done? How did that feel?**

Colour in a star. Three stars means you could teach it to someone else.



Tricky · Getting there · Easy now



Answer key

For grown-ups

Integers and the number line · keep this page back until your child has finished.

1. Write each set in order, smallest first.

- 1) -7, -2, 0, 3, 5
- 2) -18, -12, -9, -3
- 3) -8, -1, 0, 1, 8
- 4) -54, -45, 45, 54
- 5) -11, -6, 0, 2, 6
- 6) -30, -25, -13, -8
- 7) -71, -17, 17, 71
- 8) -100, -10, -1, 0
- 9) -14, -9, -4, 4, 9
- 10) -60, -16, 0, 16, 60
- 11) -32, -23, 23, 32
- 12) -55, -50, -5, 5, 50

2. Work these out. Show the step.

- 1) -2
- 2) -4
- 3) -10
- 4) -3
- 5) 0
- 6) 7
- 7) -7
- 8) -6
- 9) -15
- 10) -6
- 11) 0
- 12) 12

3. Answer each one. Write the calculation, then the answer.

- 1) $5 - 9 = -4$, so it is -4 degrees.
- 2) $3 - 7 = -4$, so it is 4 floors below ground.
- 3) $-120 + 45 = -75$, so it is at -75 m.
- 4) $-250 + 400 = 150$, so he has 150 rupees.
- 5) $8 - 14 = -6$, so it was -6 degrees.
- 6) $-30 - 25 = -55$, so she is at -55 m.
- 7) $-2 + 9 = 7$, so it is on the 7th floor.
- 8) $180 - 260 = -80$, so she owes 80 rupees.
- 9) $2,400 - (-350) = 2,750$ m.
- 10) $7 - (-6) = 13$, so it rose by 13 degrees.

WHILE YOUR CHILD WORKS

- Draw the number line every single time for the first fortnight, even for questions your child gets right. The model has to become automatic before the rules can be trusted.
- -18 being smaller than -3 is the single most common error. It is worth checking specifically before moving on.
- In word problems, underline the direction word first. That one habit fixes most of the sign errors.

**Spotted a gap while marking?**

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