CLASS 7 MATHS · 2026-27

Integers: multiplication and division

Integers

34	25	3
QUESTIONS	MINUTES	EXERCISES

This belongs to _____ Date _____

WHAT YOU'LL GET GOOD AT

- Gives the correct sign for a product or quotient without hesitating
- Handles three or more factors by counting the negative signs
- Applies order of operations when signs and brackets are mixed
- Turns a described situation into a signed calculation

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: multiplication and division

Integers · 34 questions · tick each box as you finish

Exercise 1 of 3 · 14 questions Work these out.

WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

(-3) × (-4) = 12. Count the negative signs: there are two. An even number of negatives gives a positive answer; an odd number gives a negative one. That single rule covers multiplication and division both, and it is worth saying out loud a few times rather than memorising four separate cases.

1) (-3) × (-4)

2) (-7) × 5

3) 8 × (-6)

4) (-9) × (-2)

5) (-45) ÷ 9

6) (-36) ÷ (-6)

7) 56 ÷ (-8)

8) (-1) × (-1) × (-1)

9) (-5) × (-8)

10) 6 × (-7)

11) (-11) × (-3)

12) (-72) ÷ 8

13) (-64) ÷ (-8)

14) 81 ÷ (-9)

Exercise 2 of 3 · 11 questions Work these out, one step at a time. Show each step.

WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

(-8) + (-3) × 2 = -14. The trap is doing it left to right and getting (-11) × 2 = -22. Multiplication comes before addition, so (-3) × 2 = -6 first, and then (-8) + (-6) = -14. When signs and order of operations arrive in the same question, work out the order first and the signs second - trying to do both at once is where the errors come from.

1) (-2) × (-3) × (-4)

2) (-5) × 4 ÷ (-2)

3) (-8) + (-3) × 2

4) (-15) ÷ 3 + (-4)

5) 12 ÷ (-4) × 3

6) (-6) × (-6) ÷ (-9)

7) (-3) × (-2) × (-5)

8) (-9) + 4 × (-2)

9) (-24) ÷ 6 - (-7)

10) 20 ÷ (-5) × (-3)

11) (-7) × 3 + 30

Exercise 3 of 3 · 9 questions Write the calculation, then the answer in a sentence.

WRITE THE ANSWER

HERE'S ONE DONE FOR YOU

The submarine: descending is negative, so 5 m down for 8 minutes is (-5) × 8 = -40, which is 40 m below the surface. Notice the two separate decisions - first which direction counts as negative, then the arithmetic. Children who go straight to the numbers usually get the size right and the sign wrong, and the sign is half the mark.

1) A submarine descends 5 m every minute for 8 minutes. Where is it relative to the surface?

2) The temperature is 5°C and falls 3°C every hour for 6 hours. What is the temperature then?

3) A shopkeeper loses ₹25 on each of 14 items. What is the total loss?

4) In a quiz, a correct answer scores +4 and a wrong one -2. A student gets 9 right and 6 wrong. What is the score?

5) A diver is 30 m below the surface and rises 4 m each minute for 5 minutes. Where is the diver now?

6) A well is dug 3 m deeper each day for 7 days. How deep is it relative to the ground?

7) A cricketer loses 6 runs for each of 5 no-balls and gains 40 runs otherwise. What is the net figure?

8) The temperature at midnight was -8°C and rose 2°C every hour for 9 hours. What was it then?

9) A trader gains ₹35 on each of 12 items and loses ₹20 on each of 9 others. What is the net result?

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: multiplication and division · keep this page back until your child has finished.

1. Work these out.

1) 12 - two negatives, so the answer is positive.
2) -35 - one negative, so the answer is negative.
3) -48 - one negative, so the answer is negative.
4) 18 - two negatives, so the answer is positive.
5) -5 - one negative, so the answer is negative.
6) 6 - two negatives, so the answer is positive.
7) -7 - one negative, so the answer is negative.
8) -1 - three negatives, which is an odd number of them, so the answer is negative.
9) 40 - two negatives, so the answer is positive.
10) -42 - one negative, so the answer is negative.
11) 33 - two negatives, so the answer is positive.
12) -9 - one negative, so the answer is negative.
13) 8 - two negatives, so the answer is positive.
14) -9 - one negative, so the answer is negative.

2. Work these out, one step at a time. Show each step.

1) -24. First (-2) × (-3) = 6, then 6 × (-4) = -24. Three negatives, so negative.
2) 10. First (-5) × 4 = -20, then (-20) ÷ (-2) = 10.
3) -14. Multiply first: (-3) × 2 = -6. Then (-8) + (-6) = -14.
4) -9. Divide first: (-15) ÷ 3 = -5. Then (-5) + (-4) = -9.
5) -9. Left to right: 12 ÷ (-4) = -3, then (-3) × 3 = -9.
6) -4. First (-6) × (-6) = 36, then 36 ÷ (-9) = -4.
7) -30. First (-3) × (-2) = 6, then 6 × (-5) = -30. Three negatives, so negative.
8) -17. Multiply first: 4 × (-2) = -8. Then (-9) + (-8) = -17.
9) 3. Divide first: (-24) ÷ 6 = -4. Then (-4) - (-7) = -4 + 7 = 3.
10) 12. Left to right: 20 ÷ (-5) = -4, then (-4) × (-3) = 12.
11) 9. Multiply first: (-7) × 3 = -21. Then -21 + 30 = 9.

3. Write the calculation, then the answer in a sentence.

1) (-5) × 8 = -40. The submarine is 40 m below the surface.
2) 5 + (-3) × 6 = 5 + (-18) = -13. The temperature is -13°C.
3) (-25) × 14 = -350. The total loss is ₹350.
4) 9 × 4 + 6 × (-2) = 36 + (-12) = 24. The student scores 24.
5) -30 + 4 × 5 = -30 + 20 = -10. The diver is 10 m below the surface.
6) (-3) × 7 = -21. The well is 21 m below the ground.
7) 40 + 5 × (-6) = 40 + (-30) = 10. The net figure is 10 runs.
8) -8 + 2 × 9 = -8 + 18 = 10. The temperature was 10°C.
9) 12 × 35 + 9 × (-20) = 420 + (-180) = 240. The net gain is ₹240.

WHILE YOUR CHILD WORKS

- If your child hesitates on a sign, ask them to count the negative signs out loud. Even means positive, odd means negative - one rule instead of four.
- Mixed questions are the real test. Ask 'what do we do first?' before any arithmetic happens.
- In word problems, ask 'which direction is negative here?' first. That decision made explicitly fixes most sign errors.