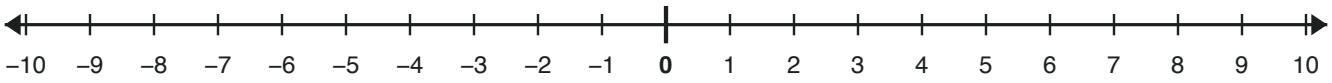
How Integers Work

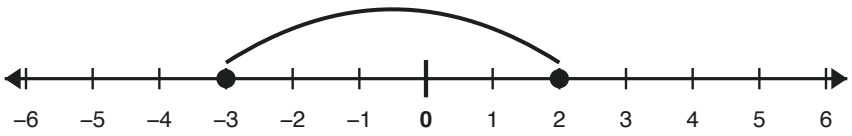
Positive and negative numbers: adding, subtracting, multiplying and dividing.

1. Integers on the number line



Integers are the whole numbers, their opposites, and zero. Numbers to the left of 0 are **negative**. –7 is less than –2 because it is further left.

2. Adding: move along the line



–3 + 5 = 2

Start at the first number.
Add a positive: move right.
Add a negative: move left.
5 + (–8) starts at 5 and moves 8 left, landing on –3.

3. Subtracting: add the opposite

4 – (–3) = 4 + 3 = 7

–2 – 6 = –2 + (–6) = –8

Change the subtraction sign to addition and flip the sign of the second number. Then add as usual.

4. Multiplying and dividing: count the negative signs

positive × positive	negative × negative	positive × negative	negative × positive
3 × 4 = 12	**–3 × (–4) = 12**	**3 × (–4) = –12**	**–3 × 4 = –12**
positive	**positive**	**negative**	**negative**

Same signs give a positive answer. Different signs give a negative answer. Division follows the same rule: –12 ÷ (–4) = 3 and –12 ÷ 4 = –3.

5. Try it

–4 + 9 = _____ **6 – (–2) =** _____ **–5 × (–3) =** _____ **–18 ÷ 6 =** _____

Answers: 5, 8, 15, –3