

Lesson 2 Reteach

Add Integers

To add integers with the same sign, add their absolute values. The sum is:

- positive if both integers are positive.
- negative if both integers are negative.

To add integers with different signs, subtract their absolute values. The sum is:

- positive if the positive integer's absolute value is greater.
- negative if the negative integer's absolute value is greater.

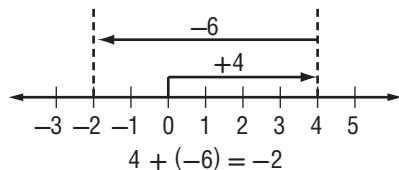
To add integers, it is helpful to use a number line.

Example 1

Find $4 + (-6)$.

Use a number line.

- Start at 0.
- Move 4 units right.
- Then move 6 units left.

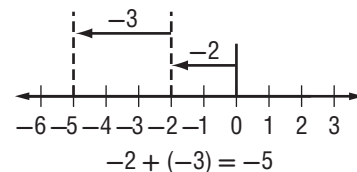


Example 2

Find $-2 + (-3)$.

Use a number line.

- Start at 0.
- Move 2 units left.
- Move another 3 units left.



Exercises

Add.

1. $-5 + (-2)$ **-7**

2. $8 + 1$ **9**

3. $-7 + 10$ **3**

4. $16 + (-11)$ **5**

5. $-22 + (-7)$ **-29**

6. $-50 + 50$ **0**

7. $-10 + (-10)$ **-20**

8. $100 + (-25)$ **75**

9. $-35 + (-20)$ **-55**

10. $-7 + (-3) + 10$ **0**

11. $-42 + 36 + (-36)$ **-42**

12. $-17 + 17 + 9$ **9**

Write an addition expression to describe each situation. Then find each sum.

13. **HAWK** A hawk is in a tree 100 feet above the ground. It flies down to the ground. $100 + (-100)$; **0**

14. **RUNNING** Leah ran 6 blocks north then back 4 blocks south. $6 + (-4)$; **2**