

# 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.

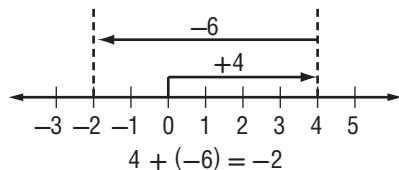
To add integers, it is helpful to use a number line.

### Example 1

Find  $4 + (-6)$ .

Use a number line.

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

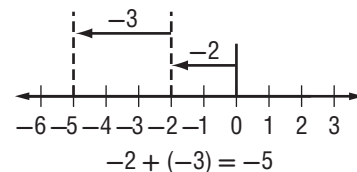


### Example 2

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**