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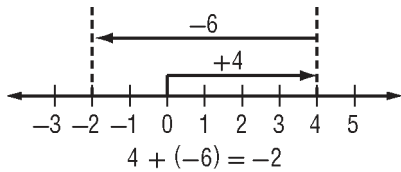- negative if the negative integer's absolute value is greater.

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.
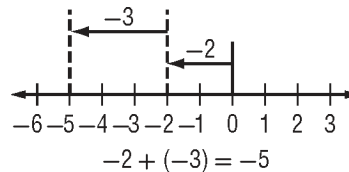- Then move 6 units left.

$$4 + (-6) = -2$$

Example 2

Find $-2 + (-3)$.

Use a number line.
- Start at 0.
- Move 2 units left.
- Move another 3 units left.

$$-2 + (-3) = -5$$

Exercises

Add.

1. $-5 + (-2)$

2. $8 + 1$

3. $-7 + 10$

4. $16 + (-11)$

5. $-22 + (-7)$

6. $-50 + 50$

7. $-10 + (-10)$

8. $100 + (-25)$

9. $-35 + (-20)$

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

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

12. $-17 + 17 + 9$

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.

14. **RUNNING** Leah ran 6 blocks north then back 4 blocks south.