

# Lesson 4 Reteach

## Multiply Integers

The product of two integers with **different** signs is **negative**.

The product of two integers with the **same** sign is **positive**.

### Example 1

Find  $5(-2)$ .

$$5(-2) = -10$$

The integers have different signs. The product is negative.

### Example 2

Find  $-3(7)$ .

$$-3(7) = -21$$

The integers have different signs. The product is negative.

### Example 3

Find  $-6(-9)$ .

$$-6(-9) = 54$$

The integers have the same sign. The product is positive.

### Example 4

Find  $(-7)^2$ .

$$\begin{aligned} (-7)^2 &= (-7)(-7) \\ &= 49 \end{aligned}$$

There are 2 factors of  $-7$ .  
The product is positive.

### Example 5

Find  $-2(-3)(4)$ .

$$\begin{aligned} -2(-3)(4) \\ &= 6(4) \\ &= 24 \end{aligned}$$

Multiply  $-2$  and  $-3$ .  
Multiply  $6$  and  $4$ .

### Exercises

Multiply.

1.  $-5(8)$

2.  $-3(-7)$

3.  $10(-8)$

4.  $-8(3)$

5.  $-12(-12)$

6.  $(-8)^2$

7.  $-5(7)$

8.  $3(-2)$

9.  $-6(-3)$

10.  $5(-4)(5)$

11.  $-4(-4)$

12.  $2(-3)(5)$

13.  $-2(-3)$

14.  $9(-4)$

15.  $(-3)(-4)$

16.  $-3(-3)(5)$

17.  $-2(5)^2$

18.  $(-3)(-4)(5)$