

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. $-5(8)$ **-40**

2. $-3(-7)$ **21**

3. $10(-8)$ **-80**

4. $-8(3)$ **-24**

5. $-12(-12)$ **144**

6. $(-8)^2$ **64**

7. $-5(7)$ **-35**

8. $3(-2)$ **-6**

9. $-6(-3)$ **18**

10. $5(-4)(5)$ **-100**

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

12. $2(-3)(5)$ **-30**

13. $-2(-3)$ **6**

14. $9(-4)$ **-36**

15. $(-3)(-4)$ **12**

16. $-3(-3)(5)$ **45**

17. $-2(5)^2$ **-50**

18. $(-3)(-4)(5)$ **60**