NAME _____ DATE _____ PERIOD _____

11-3 B Reteach

Multiply Integers

- The product of two integers with different signs is negative.
- The product of two integers with the same sign is positive.

Examples **Multiply.**

1. **$2 \times (-1)$**

   $2 \times (-1) = -2$ The integers have different signs. The product is negative.

2. **-4×3**

   $-4 \times 3 = -12$ The integers have different signs. The product is negative.

3. **3×5**

   $3 \times 5 = 15$ The integers have the same sign. The product is positive.

4. **$-2 \times (-4)$**

   $-2 \times (-4) = 8$ The integers have the same sign. The product is positive.

Exercises

Multiply.

1. $3 \times (-3)$ **2.** $-5 \times (-2)$ **3.** $-8 \times (-1)$

4. -2×8 **5.** $4 \times (-3)$ **6.** $-3 \times (-2)$

7. $5 \times (-4)$ **8.** $-10 \times (-4)$ **9.** -3×6

10. $-3 \times (-10)$ **11.** $6 \times (-4)$ **12.** $-7 \times (-7)$

NAME _____ DATE _____ PERIOD _____

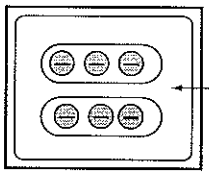
11-3 E

Reteach

Divide Integers

- The quotient of two integers with different signs is negative.
- The quotient of two integers with the same sign is positive.

Example 1 **Use counters to find $-6 \div 2$.**



So, $-6 \div 2 = -3$.

Example 2 **Find $10 \div (-5)$.**

Since $-5 \times (-2) = 10$, it follows that $10 \div (-5) = -2$.

Example 3 **Find $-12 \div (-3)$.**

Since $-3 \times 4 = -12$, it follows that $-12 \div (-3) = 4$.

Exercises

Divide.

1. $4 \div (-2)$

2. $-9 \div (-3)$

3. $-8 \div 2$

4. $-21 \div 7$

5. $30 \div (-5)$

6. $-24 \div 4$

7. $-36 \div 6$

8. $-45 \div (-5)$

9. $-81 \div 9$

10. $-3 \div (-3)$

11. $70 \div (-7)$

12. $-64 \div (-8)$

13. ALGEBRA Find the value of $a \div b$ if $a = -18$ and $b = 6$.

14. ALGEBRA For what value of p is $p \div 5 = -7$ true?