Multiply Integers

Find $+3 \times -4$.

**Different Ways to Multiply Integers**

**Way 1:** You can use repeated addition.

$-4 + -4 + -4 + -4 = -12$

**Way 2:** You can use models.

**Way 3:** You can use rules.

- Find the product of the absolute values of the integers.
  $3 \times 4 = 12$
- Use the rules to decide if the product will be positive or negative.
  $+3 \times -4 = -12$

**Rules**

- The product of two integers with different signs is always negative.
- The product of two integers with the same sign is always positive.
- If one factor is zero, the product is zero.

Write each expression as a multiplication problem. Then evaluate.

1. $+3 + +3 + +3 + +3 + +3 + +3$

2. $-4 + -4 + -4 + -4 + -4$

3. $-1 + -1 + -1 + -1$

4. $-8 + -8 + -8 + -8 + -8 + -8 + -8$

Find each product.

5. $+5 \times -3$

6. $-6 \times +7$

7. $-2 \times -3$

8. $-11 \times +5$

9. $-5 \times -4$

10. $+1 \times -8$

11. $+7 \times -3$

12. $-3 \times -9$

13. $+8 \times -7$

14. $-6 \times -9$

15. $-7 \times +4$

16. $+10 \times -8$