

LESSON
9-6 **Interactive Study Guide**
Multiplying Integers

Rules for Multiplying Integers
If the signs are the same, the product is positive.
If the signs are different, the product is negative.
The product of any number and 0 is 0.

Multiplying Integers

Find each product.

- A.** $3 \cdot 2$ How many groups of 2 are there? _____
 $3 \cdot 2 =$ _____ Is the product positive or negative? _____
- B.** $4 \cdot (-3)$ How many groups of -3 are there? _____
 $4 \cdot (-3) =$ _____ The signs are different so the product is _____.
- C.** $-6 \cdot 2$ $-6 \cdot 2$ is the opposite of how many groups of 2? _____
 $-6 \cdot 2 =$ _____ The signs are different so the product is _____.
- D.** $-2 \cdot (-5)$ $-2 \cdot (-5)$ is the opposite of how many groups of -5 ? _____
 $-2 \cdot (-5) =$ _____ The signs are the same so the product is _____.

Evaluating Integer Expressions

Evaluate $4x$ for each value of x .

- A.** $x = -7$
 _____ x Write the expression.
 _____ \cdot _____ What will you substitute for x ?
 _____ Are the signs different or the same? _____
 _____ Multiply. The product is _____.
- B.** $x = 0$
 _____ x Write the expression.
 _____ \cdot _____ What will you substitute for x ?
 _____ Multiply.