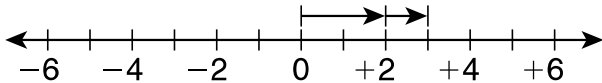


**LESSON** **9-4** **Interactive Study Guide**  
**Adding Integers**

**Writing Integer Addition**

Write the addition modeled on the number line.



The addition modeled is \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_.

**Adding Integers**

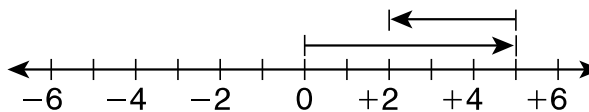
Find the sum.

$5 + (-3)$

Start at 0 and move 5 units right to represent \_\_\_\_\_.

Then move 3 units left to represent \_\_\_\_\_.

Where do you stop? \_\_\_\_\_



$5 + (-3) =$  \_\_\_\_\_

**Evaluating Integer Expressions**

Evaluate  $x + 2$  for each value of  $x$ .

**A.  $x = 3$**

$x +$  \_\_\_\_\_ Write the expression.

\_\_\_\_\_ + \_\_\_\_\_ What will you substitute for  $x$ ?

\_\_\_\_\_ Add.

**B.  $x = -4$**

$x +$  \_\_\_\_\_ Write the expression.

\_\_\_\_\_ + \_\_\_\_\_ What will you substitute for  $x$ ?

\_\_\_\_\_ Add.

**Earth Science Application**

A tree's roots reach 7 ft below the ground. The tree's highest branch is 15 ft above the root. How far above the ground is the tree?

$-$  \_\_\_\_\_ + \_\_\_\_\_ How far below the ground is the root? \_\_\_\_\_

How far above the root is the branch? \_\_\_\_\_

\_\_\_\_\_ Add.

The tree is \_\_\_\_\_ above the ground.