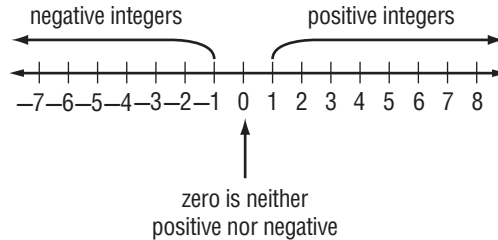


# Lesson 1 Reteach

## Integers and Absolute Value

Integers less than zero are **negative integers**. Integers greater than zero are **positive integers**.



The **absolute value** of an integer is the distance the number is from zero on a number line. Two vertical bars are used to represent absolute value. The symbol for absolute value of 3 is  $|3|$ .

### Example 1

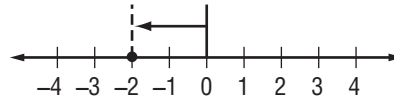
Write an integer that represents 160 feet below sea level.

Because it represents *below* sea level, the integer is  $-160$ .

### Example 2

Evaluate  $|-2|$ .

On the number line, the point  $-2$  is 2 units away from 0. So,  $|-2| = 2$ .



### Exercises

Write an integer for each situation.

- |                                    |           |                   |            |
|------------------------------------|-----------|-------------------|------------|
| 1. $12^{\circ}\text{C}$ above zero | <b>12</b> | 2. a loss of \$24 | <b>-24</b> |
| 3. a gain of 20 pounds             | <b>20</b> | 4. falling 6 feet | <b>-6</b>  |

Evaluate each expression.

- |                 |           |                    |            |
|-----------------|-----------|--------------------|------------|
| 5. $ 12 $       | <b>12</b> | 6. $ -150 $        | <b>150</b> |
| 7. $ -8  + 2$   | <b>10</b> | 8. $ 6  +  5 $     | <b>11</b>  |
| 9. $ -19  - 17$ | <b>2</b>  | 10. $ 84  -  -62 $ | <b>22</b>  |