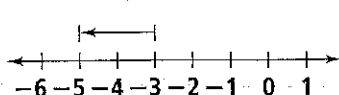


**Additional Examples****Lesson 1-5****1 EXAMPLE** Subtract  $-3 - 2$  using a number line.

Start at  $-3$ .  
Move left 2 units.

$$-3 - 2 = -5$$

Algebra 1, Chapter 1

**6****Additional Examples****Lesson 1-5****2 EXAMPLE** Subtract  $4 - (-2)$  using tiles.

Start with 4 positive tiles.



Add zero pairs until there are 2 negative tiles.



Remove 2 negative tiles.

There are 6 positive tiles left.

$$4 - (-2) = 6$$

**3 EXAMPLE** Simplify  $-11.6 - (-14)$ .

$$\begin{aligned} -11.6 - (-14) &= -11.6 + 14 && \text{The opposite of } -14 \text{ is } 14. \\ &= 2.4 && \text{Add.} \end{aligned}$$

**4 EXAMPLE** Simplify  $|-13 - (-21)|$ .

$$\begin{aligned} |-13 - (-21)| &= |-13 + 21| && \text{The opposite of } -21 \text{ is } 21. \\ &= |8| && \text{Add within absolute value symbols.} \\ &= 8 && \text{Find the absolute value.} \end{aligned}$$

**5 EXAMPLE** Evaluate  $x - (-y)$  for  $x = -3$  and  $y = -6$ .

$$\begin{aligned} x - (-y) &= -3 - [ -(-6) ] && \text{Substitute } -3 \text{ for } x \text{ and } -6 \text{ for } y. \\ &= -3 - 6 && \text{The opposite of } -6 \text{ is } 6. \\ &= -9 && \text{Subtract.} \end{aligned}$$

**6 EXAMPLE** The temperature in Montreal, Canada, at 6:00 P.M. was  $-8^{\circ}\text{C}$ . Find the temperature at 10:00 P.M. if it fell  $7^{\circ}\text{C}$ .

Find the temperature at 10:00 P.M. by subtracting  $7^{\circ}\text{C}$  from the temperature at 6:00 P.M.

$$\begin{aligned} -8 - 7 &= -8 + (-7) && \text{Add the opposite.} \\ &= -15 && \text{Simplify.} \end{aligned}$$

The temperature at 10:00 P.M. was  $-15^{\circ}\text{C}$ .