

## Pg 350

## LESSON

## 6.1

- 1.** Use a model to solve each equation. Verify the solution.
- a)  $4x = -36$     b)  $-7x = 63$   
 c)  $4x + 7 = 19$     d)  $-3x + 5 = 17$
- 2.** Alice has some granola bars in her backpack. If she triples the number of granola bars then adds 4, she will get 13. How many granola bars does Alice have?
- a) Choose a variable. Write an equation for this situation.  
 b) Use a model to solve the equation.  
 c) Verify the solution.  
 Show how you did this.

## 6.2

- 3.** Solve each equation. Verify the solution.
- a)  $4x + 9 = -27$     b)  $-5x + 8 = 23$   
 c)  $3x - 4 = -3$     d)  $10 = 6x + 5$
- 4.** The school's sports teams held a banquet. The teams were charged \$125 for the rental of the hall, plus \$12 for each meal served. The total bill was \$545. How many people attended the banquet?
- a) Write an equation you could use to

solve the problem.

- b) Solve the equation. Verify the solution.

## 6.3

- 5.** Solve each equation. Verify the solution.
- a)  $\frac{n}{4} = -8$     b)  $\frac{m}{3} - 2 = 3$   
 c)  $\frac{b}{-3} = 6$     d)  $\frac{f}{-8} + 8 = 12$
- 6.** For each sentence, write an equation. Solve the equation to find the number.
- a) A number divided by  $-7$  is 4.  
 b) A number divided by  $-9$  is  $-3$ .  
 c) Add 5 to a number divided by  $-2$  and the sum is 0.

## 6.4

- 7.** Draw a rectangle to show that:  
 $6(3 + a) = 18 + 6a$
- 8.** Expand.
- a)  $3(x + 11)$     b)  $5(12 + y)$   
 c)  $-7(a - 4)$     d)  $-12(-t + 6)$

## 6.5

- 9.** Use the distributive property to solve each equation. Verify the solution.
- a)  $3(x + 2) = 21$     b)  $4(p - 3) = 16$   
 c)  $-5(r + 4) = -15$     d)  $6(-s - 3) = 24$
- 10.** Jon is playing a game. He starts with some points. On his first turn, Jon wins 6 points. On his second turn, Jon's points are doubled. He then has 26 points. How many points did Jon

start with?

- a) Write an equation to model this problem.  
 b) Solve the equation. Verify the solution.