NAME _____ DATE _____ PERIOD _____

# Lesson 8 Skills Practice

## *Solve Systems of Equations Algebraically*

**Solve each system of equations algebraically.**

**1.** $y = x - 8$
$y = 5x$

**2.** $y = -x - 4$
$y = 3x$

**3.** $y = x + 11$
$y = 12x$

**4.** $y = x - 14$
$y = -6x$

**5.** $y = -x + 9$
$y = 2x$

**6.** $y = x + 15$
$y = -4x$

**7.** $y = -x - 10$
$y = 4x$

**8.** $y = x + 24$
$y = -7x$

**9.** $y = -x + 18$
$y = 8x$

**Write and solve a system of equations that represents each situation. Interpret the solution.**

**10.** **TELEVISION** Videl watched 6 times as many hours of television over the weekend as Dineen. Together they watched a total of 14 hours of television. How many hours of television did each person watch over the weekend?

**11.** **CROSS-COUNTRY SKIING** Lucida is a cross-country ski racer. On Saturday, she skied twice as many miles as she did on Sunday. Over the weekend she skied a total of 63 miles. How far did she ski on each day?

**12.** **DARTS** Bryson and Lilly played a game of darts, and Lilly scored 4 more points than Bryson. The total of their scores was 180. How many points did each of them score?

Copyright © The McGraw-Hill Companies, Inc. Permission is granted to reproduce for classroom use.