

*p*

2007

**Points**

**Year**

**Total Points Scored by Both**

**Teams in Super Bowl**

**16.** **ANALYZE TABLES** The total points scored by both teams in the 2008 Super Bowl was 15 less than the total points for 2007. Write and solve an equation to find the total points for 2007.

31

2008

*For more examples, go to* www.connected.mcgraw-hill.com*.*

**Course 3** • Equations and Inequalities

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**15.** **FUNDRAISING** During a five-day fundraiser, Shantell sold 8 boxes of greeting cards the first day, 6 boxes the second day, 10 boxes the third day, and 7 boxes the fourth day. If she sold a total of 45 boxes of greeting cards during the five days, write an equation that can be used to find the number of boxes Shantell sold the fifth day. Explain two methods of solving this equation. Then solve the equation.

**13.** **GEOMETRY** Two angles are supplementary if the sum of their measures is 180°. The two angles shown are supplementary. Write and solve an equation to find the measure of
angle *R.*

**14.** **ARCHITECTURE** The Sears Tower in Chicago was the tallest building in the world when it was completed. Twenty-three years later, a taller building was completed in 1996 in Taiwan. Write and solve an equation to find the year that the Sears Tower was completed.

**Homework Practice**

***Solve Addition and Subtraction Equations***

140°

*R S*

**12.** 12 + *c* = 16

**11.** –9 = *g* + 9

**10.** 11 = *w* – 5

**9.** –8 = *r* – 6

**8.** 15 + *n* = 10

**7.** –14 = 2 + *d*

**6.** *y* – 10 = –3

**5.** *m* + 9 = –7

**4.** *k* – 4 = –14

**3.** 8 = *b* – 9

**2.** *h* – 3 = 8

**1.** *t* + 7 = 12

**Solve each equation. Check your solution.**

PERIOD

DATE