

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

**Course 3** • Multi-Step Equations and Inequalities

**18.** **MUSIC** Marc has 45 CDs in his collection, and Corinna has 61. If Marc

buys 4 new CDs each month and Corinna buys 2 new CDs each month, after how many months will Marc and Corinna have the same number of CDs?

**Write and solve an equation to solve each exercise.**

**17.** **GOLF** For an annual membership fee of $500, Mr. Bailey can join a

country club that would allow him to play a round of golf for $35. Without the membership, the country club charges $55 for each round of golf. How many rounds of golf would Mr. Bailey have to play for the cost to be the same with and without a membership?

**Homework Practice**

***Solve Equations with Variables on Each Side***

**Exercises**

x + 3

5x

x + 4

8x + 9

5x

5x

x + 6

x + 1

x + 9

x + 17

x + 14

5x

5x

5x

**16.**

**15.**

**Write an equation to find the value of *x* so that each pair of polygons**

**has the same perimeter. Then solve.**

**14.** Twelve more than seven times a number equals the number less six.

**Define a variable, write an equation, and solve to find each number.**

**13.** Fourteen less than five times a number is three times the number.

**12.** 16.8 – *v* = 6*v*

**11.** 3.2*a* – 16 = 4a

**10.** 3*x* – 32 = –7*x* + 28

**9.** –6*y* + 17 = 3*y* –10

**8.** 4 – 7*f* = *f* –12

**7.** 12 – 5*h* = *h* + 6

**6.** 11*z* – 5 = 9*z* + 7

**5.** 7*p* – 5 = 6*p* + 8

**4.** *t* – 27 = 4*t*

**3.** 8*d* – 25 = 3*d*

**2.** 13*x* = 32 + 5*x*

**1.** 9*m* + 14 = 2*m*

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

 DATE PERIOD



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