Name _____ Date _____ Class _____

Skill: Solving Linear Equations

Solve each equation. Check your answers.

1. $10 + 5h = 25$ **2.** $8s - 8 = 64$ **3.** $3y + 78 = 81$

4. $2g + 4 = 12$ **5.** $5j + 5 = 15$ **6.** $3w + 8 = 20$

7. For a walk-a-thon a sponsor committed to give you a flat fee of $5 plus $2 for every mile you walk. Write an expression for the total amount of money you will collect from your sponsor at the end of the walk-a-thon. Then evaluate your expression for 20 miles walked.

8. To win the neighborhood tomato-growing contest Johnny needs for his tomato plants to produce 8 tomatoes per week. He needs 30 tomatoes to win the contest. He already has 6 tomatoes. Write and solve an equation to find the number of weeks he needs to produce 30 tomatoes.

Skill: Solving Linear Equations *(continued)*

For Exercises 9–14, solve each equation.

9. $4r + 6 = 14$ **10.** $9y - 11 = 7$ **11.** $-5b - 6 = -11$

12. $-9i - 17 = -26$ **13.** $14.9 = 8.6 + 0.9m$ **14.** $15w - 21 = -111$

15. Hugo received $100 for his birthday. He then saved $20 per week until he had a total of $460 to buy a printer. Use an equation to show how many weeks it took him to save the money.

16. A health club charges a $50 initial fee plus $2 for each visit. Moselle has spent a total of $144 at the health club this year. Use an equation to find how many visits she has made.