

# Solving Equations with Variables and Constants on Both Sides

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Solve each equation for the variable and check your answer by evaluating the original equation.

1.  $7 - 2n = n - 14$

2.  $2(4 - 2r) = -2(r + 5)$

3.  $6t = 3(t + 4) - t$

4.  $7x - 8 = 3x + 12$

5.  $2(6 - 4d) = 25 - 9d$

6.  $4g + 7 = 5g - 1 - g$

7.  $8 - 3(p - 4) = 2p$

8.  $3(2f + 4) = 2(3f - 6)$

$$9. -(6x - 1) = -(4x - 15)$$

$$10. -5x + 5 = -51 + 3x$$

$$11. -(6x - 5) + 2x = 3(2x + 5)$$

$$12. 3x + 1 = -7x + 91$$

$$13. -(6x + 9) = 7x - 35$$

$$14. 4(2x + 2) = 80$$