

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

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### **Solving Equations with Variables on Both Sides #4 (page 1)**

1.  $2n + 12 = 2(n - 6)$

2.  $9x - 2 = 10 - 3x$

3.  $0.24x + 2(.03x + 3) = 12$

4.  $3(3y - 6) = 7y - 18 + 2y$

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## Solving Equations with Variables on Both Sides #4 (page 2)

**Explain your answer or show your work for each choice.**

5. (SE) Which equation has no solution?

(A)  $4(x - 5) = 4x - 5$

(B)  $2x + 6 - 3x = x + 6$

(C)  $-3(4 + x) = -3x - 12$

(D)  $2x + 1 = 5x + 1$

6. (SE) How many solutions does the following system of equations have?

$$3(2x + 6) = 5$$

$$2(3x + 9) = 6$$

(A) One solution

(B) Two solutions

(C) All solutions

(D) No solutions

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