

Name _____ Period _____ Date _____

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Solving Equations with Variables on Both Sides #3 (page 1)

1. $12x - 14 = 6x + 10$

2. $12x - 14 = 8x + 16$

3. $12x - 14 = 2x + 16$

4. $12x - 14 = 6x + 16$

5. $12x - 14 = 12x + 10$

For problem #5:

What do you notice about the variable terms on each side of the equation? _____

What do notice about the constants? _____

Because of this what is the solution? _____

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Solving Equations with Variables on Both Sides #3 (page 2)

6. $12x - 16 = 12x - 16$

For problem #6:

What do you notice about the variable terms on each side of the equation? _____

What do notice about the constants? _____

Because of this, what is the solution? _____

7. What value of x makes the following equation true?

$$5x - 4 = 12 - 3x$$

$$x = \underline{\hspace{2cm}}$$

8. Complete the following equation so that it has infinitely many solutions:

$$-4 + 9(6x - 1) = 3(Mx + N) \quad M = \underline{\hspace{1cm}} \quad \text{and} \quad N = \underline{\hspace{1cm}}$$

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