Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CCM8

Solving Equations with Variables on Both Sides

Steps:

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |

Examples:

 Check:

1. 6x + 3 = 8x – 21
2. 40 + 1.5h = 3.5h

1. -36 + 2w = -8w + w
2. 6x = 4(x + 5)

Examples: Check:

1. 
2. 

Identity and No Solution:

Sometimes when you try to solve an equation, your variable cancels out completely. If what is left is a true statement, then your answer is “Identity”

“Identity” means that all real numbers are solutions:

5x + 6 = 2x + 6 + 3x

Sometimes when you try to solve an equation, your variable cancels out completely.

If what is left is a false statement, then your answer is “no solution”

“No Solution” means no value of your variable will work.

4x – 10 + 2x = 6x - 3

You Try:

1. 2(x + 3) = 2x + 6
2. 3(x + 4) = 3x + 4