Equations - Day 4	
Notes	

Name	
Date	Period

Solving for a variable on both sides.

Steps to solve when a variable is on both sides of the equation.

Step 1: Distribute (if needed)

Step 2: Combine like terms (if any)

Step 3: Move all variables to one side of the equal sign by doing the opposite operation. Step 4: Move all whole numbers to the other side of the equal sign by doing the opposite operation:

Step 5: Solve for the variable

Example: 5(x + 2) = 3x - 2x + 6	$\int_{5(x+2)}$	= 3x - 2x + 6
Step 1: Distribute	5x + 10 :	3x - 2x + 6
Step 2: Combine like terms	5x + 10 :	= x + 6
Step 3: Move the variable	-x	-x
	4x + 10 :	= 6
Step 4: Move the whole number	-10	-10
	<u>4x</u> :	<u>-4</u>
Step 5: Solve for x	4	4
	x =	-1

1	-5x + 13 = 3x + 85	2	-6x + 10 = 3x + 91
1.	-0X + 10 - 5X + 60	۷.	-0x + 10 - 3x + 91

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5. -7x - 3x + 2 = -8x - 86. -8x + 4(1 + 5x) = -6x - 14

7.
$$4x - 40 = 7(-2x + 2)$$

8. $3(1 - 3x) = 2(-4x + 7)$

9. 7(5x - 4) - 1 = 14 - 8x 10. -10 + x + 4 - 5 = 7x - 5