Name_____   Date _____

Mr. Tallman

Do Now

Solve and Check the following equations

1) $3x + 10 + 2x = 5$ 2) $3 - 2x + 4x + 6 = 9$

Lesson #52 – Solving Equations with the Distributive Property

Warm Up: Simplify the following expressions

A) $6(2 + 4x)$	B) $2(4x - 8) - 5(6 + 3x)$

Example 1) Solve and Check: $2(4x + 3) = 46$

Steps to solving an equation involving the distributive property:

Steps	Example
1) Use the distributive property where possible.	
2) Combine like terms if necessary	
3) Solve the resulting equation	
4) Check your solution.	

Example 2) Solve and Check: 12(x + 2) = 12

Example 3) Solve and Check: 3(x + 4) = 27

Now, You Try!

Solve and Check the following equations.

4) 3(x – 2) = 12	5) 2(x + 7) + x = 20
6) 5(x + 2) = -5	7) 10(x – 4) = 50
8) ½ (6y + 4) = 2	9) ¼ (16n – 12) = 26