Name_____ Date _____

Mr. Tallman

Do Now

Simplify the following by Combining Like Terms.

1) $4x - 7x$	2) $5y - 2 - 3y + 8$
3) $7x^2 + 3x^2$	4) $\frac{2}{5}g - \frac{1}{6} + \frac{3}{10}g - \frac{4}{5}$

Lesson #51 – Distributive Property

The **Distributive Property** allows us to multiply an expression with two or more terms by a single constant term.

In the **Distributive Property**, we use _____.

Example 1) Simplify the following.

A) $-6(-4d)$	B) Find the product of 7 and $-2y$.

Directions: Use the distributive property to simplify the following expressions.

1) $2(x + 5)$	
2) $3(x + 4)$	
3) $6(x + 1)$	
4) $7(x - 3)$	
5)	$5x + 30$
6)	$8x + 8$
7)	$3x - 12$

Use the distributive property to simplify the following expressions.

8) $3(x-2)$	9) $-2(x+2)$	10) $-(x+2)$

Directions: Simplify the following expressions. USE CALCULATORS FOR FRACTIONS.

11) 4(-3x + 2)	12) -2(4x – 9)	13) $\frac{1}{5}(10x-5)$
14) $\frac{3}{4}(5x-1)$	15) $\frac{1}{8}(2x+4)$	16) $\frac{4}{5}(x+1)$
17) $\frac{1}{6}(r-6)$	18) $\frac{1}{4}(4x+8)$	19) $-(2h-9)$
20) $-7(-4q+5)$	21) $-3(2p-3q)$	22) $-3(1-8m-2n)$

Challenge: Simplify the following: $7(m+6)+10m+10$