


## Notes - Distributive Property (Day 2)

# Distributive Property and Combining Like Terms

$$a(b+c) = ab+ac$$


Distributive Property

Combining Like Terms

LIKE TERMS					
SAME VARIABLES to the SAME POWER					
3a	12a	54a	5x	12x	0.9x
3xy <sup>2</sup>	9xy <sup>2</sup>	12xy <sup>2</sup>			
5a+2x+8ab+9b+12ab+7b+3x+10a+4ab					
↑	↑	↑	↑	↑	↑

Steps to Distributing with Combining Like Terms

1. Distribute
2. Combine like terms (terms with the same variables and raised to the same power)

1.  $-n + 4(n + 1)$

2.  $-2 + 5(4 + 3r)$

3.  $-3(a + 1) + 6$

4.  $6(-3x - 5) - 9x$

5)  $2y + 5(3y - 8)$

6)  $1 - (-3d - 2y) + 12y$

7)  $-7(2c - 2) - 9$

8)  $6(2x - 8) - x$

9.  $3 - 5(9x + 10) - 5 + 15x$

11.  $-2(x + 9) - 7(5x - 4)$

10.  $-(n + 9) + 4 + 7n$

12.  $4(x - 10) - (x - 13)$