

Distributive Property and Combining Like Terms

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

Distributive Property

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

Combining Like Terms

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