

**Distributive Property**

Karla has 4 fewer dresses than her sister Kayla has. Their cousin Kimmy has three times as many dresses as Karla has. Write an algebraic expression for the number of dresses Kimmy has. Define your variable.

Recall that multiplication is repeated addition. Rewrite your algebraic expression. Combine like terms.

Compare your algebraic expressions.

Key Idea:

The distributive property allows you to simplify \_\_\_\_\_  
\_\_\_\_\_.

You must \_\_\_\_\_  
\_\_\_\_\_.

Example	Useful Property/Rule	You Try
1) $(5b - 4)(-7)$		2) $(-9n + 4)(-6)$
3) $-(2y - 3x)$		4) $-(6h - 7h^2)$
5) $\frac{4x-6}{2}$		6) $\frac{9x-15}{3}$

**Simplify Expressions - Distributive Property AND Combine Like Terms**

7) $10 - (6a - 4b + 2c) + 7b - a$	8) $\frac{8x+6}{3} + \frac{1}{3}x - 1$
9) $\frac{3}{2}\left(\frac{1}{9}x + \frac{4}{5}\right) + \frac{3}{5}$	10) $4(x^2y + xy^2) - 2x^2y$
11) $-(4y - 10) + \frac{8y - 12}{4}$	12) $3(2xy + 3x - 5y) + 2xy - 3x - 4y$

