

Distributive Property

The Basics:

To use the distributive property, multiply the leading coefficient (2) by each part inside the parenthesis (5x) and (-9)

$$\begin{aligned} & 2(5x - 9) \\ & 2(5x) \quad 2(-9) \\ & 10x - 18 \end{aligned}$$

REMEMBER:

A DOUBLE NEGATIVE
ENGLISH IS BAD!
A DOUBLE NEGATIVE
MATH IS A POSITIVE TH

Double Negatives

$$\begin{aligned} & -2(5x - 9) \\ & -2(5x) - (-2)(9) \\ & -10x + 18 \end{aligned}$$

Connect the lines -- to create a + symbol.
Because 2 times 9, is positive 18, we are adding 18



When multiplying variables, multiply the front numbers and then add an exponent to the variable! REMEMBER: You cannot add/subtract unless the exponents AND variable are the same!

$$\begin{aligned} & 2x(5x - 9) \\ & 2x(5x) \quad 2x(-9) \\ & 10x^2 - 18x \end{aligned}$$