

## 8-3 Multiplying Binomials

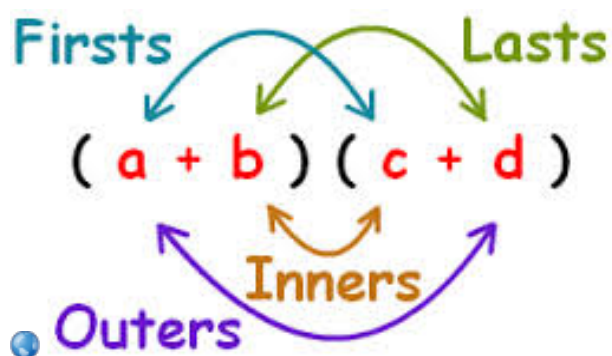
$$(a + b)(c + d)$$

3 Methods ~ Use whichever you prefer.

1. \*Distributive Property
2. Table Method
3. FOIL



This is how?



Example

$$\begin{aligned}(2x-7)(5x+3) \\ &= (10x^2) + (6x) + (-35x) + (-21) \\ &\quad \text{F} \quad \text{O} \quad \text{I} \quad \text{L} \\ &= 10x^2 + 6x - 35x - 21 \\ &= 10x^2 - 29x - 21\end{aligned}$$



Multiply.

#1  $(x + 3)(x + 8)$

#2  $(d + 2)(4d - 3)$

#3  $(6c - 2)(3c - 5)$

Challenge ~ Multiply.

#4  $(3a^2 + a + 4)(2a - 6)$

#5 Write the expression that represents the area of the swimming pool in standard form.

