Name	Pd	DateSection 2P4
Multiplying Binomials - Distributive Property		
Strategy	Lxample Outside	How You Would Explain
FUIL	First First First First: $x(x) = x^2$ Outside: $x(1) = x$ Inside Last First: $x(x) = x^2$ Outside: $x(1) = x$ Last: $9(1) = 9$	what steps would you tell someone to take?
	$x^{2} + x + 9x + 9$	Apply those steps to this example.
	Like Terms	(4x-1)(x+5)
	$x^2 + 10x + 9$	
Box	(-) (2 - q)	What steps would you tell someone to take?
Method	(x-5)(3x-9) $3x^{3}x^{2}-5$ -9 $-9x^{4}+45$ $3x^{2}-24x+45$	Apply those steps to this example. (4x - 1)(x + 5)
"Rockets"		What steps would you tell someone to take?
	$(2x - 3)(x + 4)$ $2x^{2} + 8x - 3x - 12$ $2x^{2} + 5x - 12$	Apply those steps to this example. (4x - 1)(x + 5)

Multiplying Binomials by Trinomials and More!

- Box Method & "Rockets" work best when one of your factors has more than two terms.
- <u>Ex.</u> $(3x-1)(2x^2+5x-4)$

<u>You Try</u> $(2x+4)(3x^2-x+6)$

<u>Good Luck!</u> $(3x^2 + 2x - 1)(5x^2 - 4x + 2)$