

# FOIL METHOD

The easy way to multiply two binomials!

*First:* Multiply the first term in each set of parenthesis

*Outer:* Multiply the outer term in each set of parenthesis

*Inner:* Multiply the inner term in each set of parenthesis

*Last:* Multiply the last term in each set of parenthesis

$$(3x-7)(5x+6)$$

*First:*  $(3x)(5x) = 15x^2$

*Outer:*  $(3x)(6) = 18x$

*Inner:*  $(-7)(5x) = -35x$

*Last:*  $(-7)(6) = -42$

$$15x^2 + 18x - 35x - 42$$

Don't forget to combine like terms!

$$\text{Answer: } 15x^2 - 17x - 42$$