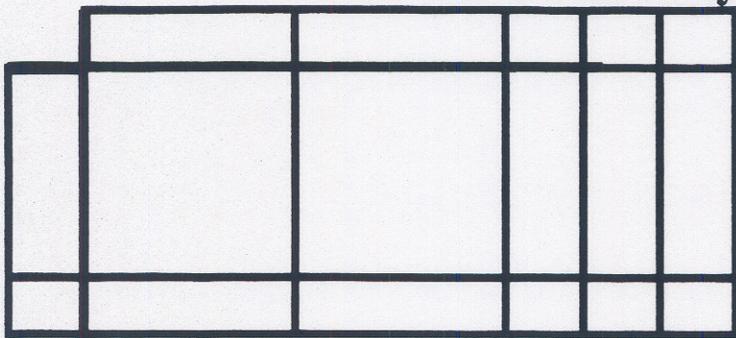


BOX METHOD for multiplying and factoring polynomials:

Algebra tiles first:

- Ex. $(2x + 3)(x + 1)$**
- a. Set up tiles around edge of mat.
 - b. Fill in center by matching edges of tiles.

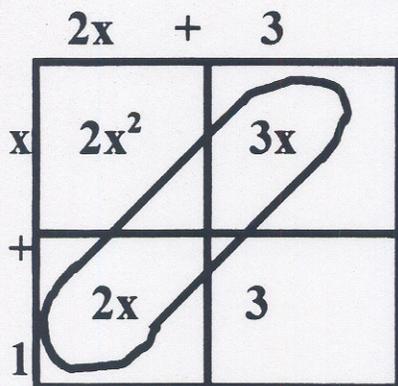


$$(2x + 3)(x + 1) = 2x^2 + 5x + 3$$

***Reverse the process for factoring: start by filling in the center with the given tile combination, then match edges to create the outside answer tiles.**

Box Method next:

- Ex. $(2x + 3)(x + 1)$**
- a. Set up monomials around edge of box.
 - b. Fill in center by multiplying (PowerMAN).
 - c. Circle and combine like terms on diagonal.



$$(2x + 3)(x + 1) = 2x^2 + 5x + 3$$