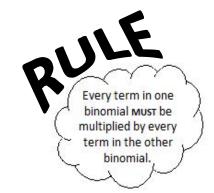
Name: _____ Expanding Binomials

A binomial is a polynomial with two terms.

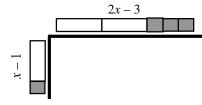
Binomials can be simplified using the following methods:

Expand
$$(2x-3)(x-1)$$
.



1. Algebra Tiles/Area Model

- draw a multiplication frame i.
- ii. use algebra tiles to model each binomial
- iii. fill the rectangle using algebra tiles
- state the answer iν.



2. Chart

- i. draw a chart
- ii. place each term from one binomial at the top of each column and each term from the other binomial at the beginning of
- iii. multiply columns and rows
- iv. state the answer

	2x	-3
х		
-1		

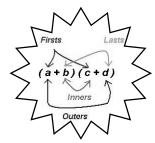
3. Expand Using The Distributive Property

$$(2x-3)(x-1) =$$



4. Multiplication Pattern: FOIL

$$(2x-3)(x-1) =$$



Example 1

Expand each of the following.

a.
$$(5x-2)(x-3)$$
 b. $(2x+1)(3x-2)$ c. $(6x+1)^2$

b.
$$(2x+1)(3x-2)$$

c.
$$(6x+1)^2$$

d.
$$(x-1)^2$$