F O I L

F O I L

step 1

Multiply the **FIRST** terms together.

$$(3x + 4)(2x - 5)$$

step 2

Multiply the **OUTER** terms together.

$$(3x + 4)(2x - 5)$$

step 3

Multiply the **INNER** terms together.

$$(3x + 4)(2x - 5)$$

step 4

Multiply the **LAST** terms together.

$$(3x + 4)(2x - 5)$$

Example 1:
Multiply $(x + 7)(x - 3)$

Example 2:
Multiply $(x + 5)^2$

Example 3:
Multiply $(2x + 9)(x - 2)$

Example 4:
Multiply $(8x - 3)(-3x - 1)$

MULTIPLYING BINOMIALS

step 1

Multiply the **FIRST** terms together.

$$(3x + 4)(2x - 5)$$

step 2

Multiply the **OUTER** terms together.

$$(3x + 4)(2x - 5)$$

step 3

Multiply the **INNER** terms together.

$$(3x + 4)(2x - 5)$$

step 4

Multiply the **LAST** terms together.

$$(3x + 4)(2x - 5)$$

Example 1:
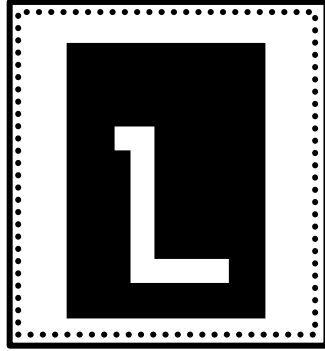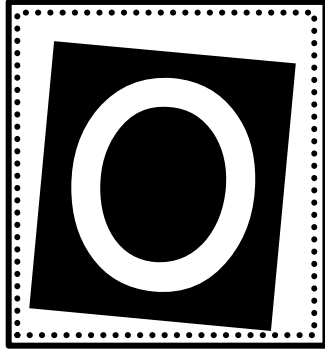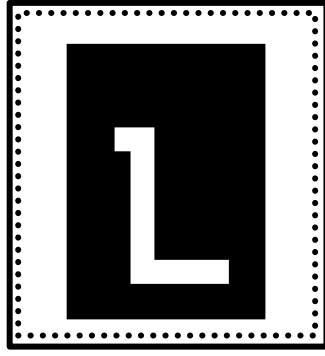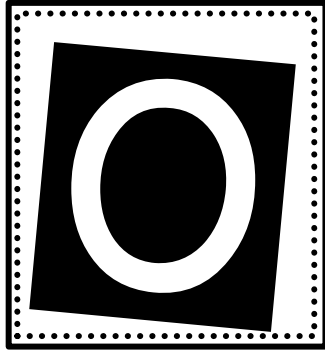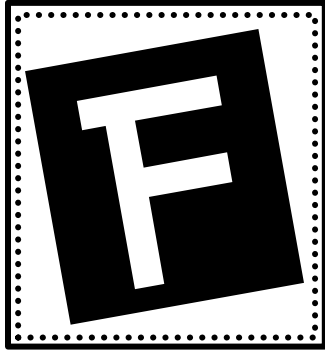Multiply $(x + 7)(x - 3)$

Example 2:
Multiply $(x + 5)^2$

Example 3:
Multiply $(2x + 9)(x - 2)$

Example 4:
Multiply $(8x - 3)(-3x - 1)$

MULTIPLYING BINOMIALS

F O l L

F O l L

MULTIPLYING BINOMIALS

step 1
Multiply the **FIRST** terms together.

$(3x + 4)(2x - 5)$

step 2
Multiply the **OUTER** terms together.

$(3x + 4)(2x - 5)$

step 3
Multiply the **INNER** terms together.

$(3x + 4)(2x - 5)$

step 4
Multiply the **LAST** terms together.

$(3x + 4)(2x - 5)$

Example 1:
Multiply $(x + 7)(x - 3)$

$x^2 - 3x + 7x - 21$

$x^2 + 4x - 21$

Example 2:
Multiply $(x + 5)^2$
$(x + 5)(x + 5)$
$x^2 + 5x + 5x + 25$

$x^2 + 10x + 25$

Example 3:
Multiply $(2x + 9)(x - 2)$
$2x^2 - 4x + 9x - 18$

$2x^2 + 5x - 18$

Example 4:
Multiply $(8x - 3)(-3x - 1)$
$-24x^2 - 8x + 9x + 3$

$-24x^2 + x + 3$

MULTIPLYING BINOMIALS

Directions

Step 1: Print pages 1 & 2 front to back (flip along the short edge).

Step 2: Cut in half along the solid line, creating two foldables per page.

Step 3: Have students fold over the top portion so that "F O I L" lies just about "Multiplying Binomials".

Step 4: Have students cut in between each of the four squares, creating four tabs.

The final product should look like this: