

Algebra I

11.3 Worksheet #1

Binomial Multiplication Using a Model

Name: _____

Date: _____ Hour: _____

Use a multiplication table to compute the following. Remember to change all subtraction into addition by **ADDING THE OPPOSITE**. Simplify all products (add like terms).

$$(1 + 6)(2 + 4) = (\quad)(\quad) =$$

	2 + 4
1 + 6	

$$(a + 2)(a + 1) =$$

	a + 1
a + 2	

$$(a - 4)(a + 2) =$$

	a + 2
a + -4	

$$(3 - 1)(2 + 2) = (\quad)(\quad) =$$

	2 + 2
3 + -1	

$$(a + 4)(a - 1) =$$

	a + -1
a + 4	

$$(y + 4)(y + 3) =$$

	y + 3
y + 4	

$$(5 + 5)(1 - 3) = (\quad)(\quad) =$$

	1 + -3
5 + 5	

$$(b + 1)(3b + 4) =$$

	3b + 4
b + 1	

$$(a - 2)(a - 5) =$$

	a + -5
a + -2	

$$(-3 - 5)(3 + -4) = (\quad)(\quad) =$$

	3 + -4
-3 + -5	

$$(b - 5)(b + 4) =$$

	b + 4
b + -5	

$$(b - 1)(b - 10) =$$

	b + -10
b + -1	

$$(2a + 1)(a + 3) =$$

	$a + 3$
$2a$ + 1	

$$(4y - 2)(y + 5) =$$

	$y + 5$
$4y$ + -2	

$$(6a + 1)(a - 1) =$$

	$a + -1$
$6a$ + 1	

$$(y + 1)(y + 4) =$$

	$y + 4$
y + 1	

$$(a^2 + 2)(a - 5) =$$

	$a + -5$
a^2 + 2	

$$(y^2 - 2)(y - 4) =$$

	$y + -4$
y^2 + -2	

$$(a^2 - 3)(a^2 + 8) =$$

	$a^2 + 8$
a^2 + -3	

$$(y^2 + 6)(y + 6) =$$

	$y + 6$
y^2 + 6	

$$(a + 3)(a^2 + a) =$$

	$a^2 + a$
a + 3	

$$(y + 2)(y^2 - 1) =$$

	$y^2 - 1$
y + 2	

$$(3a + 2)(a^2 + 2) =$$

$$(5y + 3)(y^2 + 4) =$$

$$(2a + 1)(a - 2) =$$

$$(y + 4)(y^2 + 4y) =$$

$$(a^2 + 2)(a^2 - 2) =$$
