Multiplying Quadratics
(Answer Key)

	$(x + 2)(x - 2)$		$(4x - 1)^2$			$(6x + 1)(x - 2)$		$(x + 1)(x - 1)$	
$(5x - 4)^2$		$x^2 - 4x - 12$		$(9 - x)(2 + x)$	$(4 - x)(4 + x)$		$6x^2 + 13x + 6$	$(3x+ 2)(2x+3)$	$x^2 - 14x = 24$
	$x^2 + 6x + 9$		$x^2 - 10x+24$			$25x^2 - 16$		$6x^2 + 41x + 30$	
	$(x + 3)^2$		$(x - 4)(x -6)$			$(5x - 4)(5x+4)$		$(x + 6)(6x + 5)$	
$(x - 2)(x - 9)$		$x^2 + 3x - 18$		$(9 + x)(3 - x)$	$(8 + x)(2 - x)$		$9x^2 - 12x + 4$	$(3x-2)^2$	$x^2 + 7x -18$
	$4x^2 - 25$		$x^2 - 9$			$16x^2 - 1$		$x^2 - 7x + 12$	
	$(2x-5)(2x +5)$		$(x+3)(x - 3)$			$(4x - 1)(4x+1)$		$(x - 4)(x - 3)$	
$(x + 2)(x + 5)$		$x^2 -6x - 16$		$(8 - x)(2 + x)$	$(x + 3)(x - 5)$		$4x^2 + x - 5$	$(4x + 5)(x - 1)$	$6x^2 - x - 2$
	$x^2 + 4x + 3$		$7x^2 - 19x +10$			$9x^2 - 4$		$x^2 - 8x + 16$	
	$(x + 3)(x + 1)$		$(7x - 5)(x-2)$			$(3x - 2)(3x+2))$		$(x - 4)^2$	
$(2x-5)(2x+1)$		$4x^2 +20x + 25$	$(5+x)^2$	$3x^2 + 2x - 1$	$(3x - 1)(1 + x)$		$x^2 - x - 12$	$(x + 3)(4 - x)$	$x^2 + 16$
	$25x^2 + 20x+4$		$x^2 + 9$			$x^2 + 3x - 10$		$x^2 - 15$	

Multiplying Quadratics

Directions: (1) Cut out the squares; (2) Match the equivalent expressions.

**Not all expressions will have a match.

	$x^2 + 3x + 2$			$(x-3)(x-4)$			$2x^2 + 8x - 10$			$x^2 - y^2$	
$y^2 + y + 12$		$(x+y)(x+y)$	$y^2 + 5y\ 9$		$-2x^2 + 4x + 6$	$-x^2 + 2x + 3$		$(y-5)(y-2)$	$y^2 - y - 12$		$(x+1)(x+1)$
	$(x-3)(x+4)$			$(2x-1)(x-3)$			$(2x+1)(x-1)$			$(x-5)(x+1)$	
	$(1-y)(2-y)$			$x^2 + 5x + 6$			$6x^2 + 5x - 4$			$(x+7)(x-1)$	
$6x^2 - 5x - 4$		$2x^2 + 5x - 3$	$x^2 + 2xy + y^2$		$(y+3)(y+2)$	$3y^2 + 13y + 12$		$-2x^2 - 4x + 6$	$7 + 6x - x^2$		$(2+x)(1-x)$
	$y^2 - 7y + 10$			$(2x-1)(x-1)$			$(3x-4)(2x-1)$			$2(x+1)(x-5)$	
	$2x^2 - x - 1$			$2x^2 - 4x + 6$			$-x^2 - 2x - 3$			$(x-3)(x-3)$	
$x^2 - 2xy + y^2$		$(x-7)(2x-3)$	$6x^2 - 5x + 4$		$(5x-2)(x+3)$	$-x^2 + x - 2$		$(4+3y)(3+y)$	$5x^2 + 13x - 9$		$(x+4)(x-4)$
	$(x+3)(x+2)$			$2(3+x)(1-x)$			$2(x+5)(x-1)$			$y^2 - 3y + 2$	
	$2x^2 + 4x - 6$			$(x-y)(x-y)$			$(3-x)(1+x)$			$(2x-1)(x+3)$	
$x^2 - 4x - 5$		$(x-5)(x-1)$	$9 - x^2$		$(x+1)(x+2)$	$2x^2 - 8x - 10$		$(x-3)(x+3)$	$2x^2 - 17x + 21$		$(y-4)(y+3)$
	$2(1+x)(3-x)$			$x^2 + 9$			$x^2 + y^2$			$x^2 - 7x + 12$	