


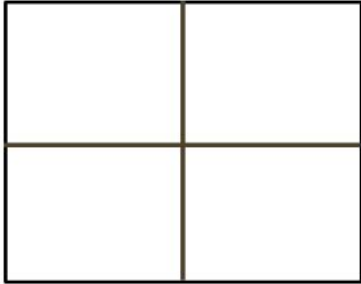
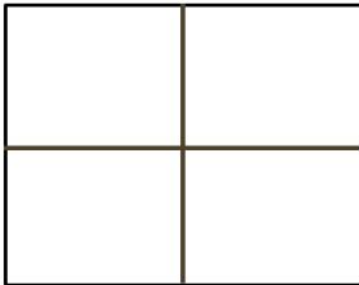
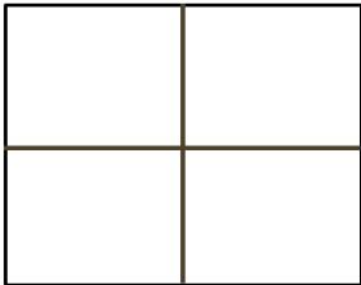
10.3 Multiplying Polynomials and FOIL

Name: _____

Date: _____

Period: _____

Multiply using the area model to find the product of the binomials.

<p>1. $(x - 3)(x - 2)$</p> 	<p>2. $(x + 3)(x - 2)$</p> 
<p>3. $(2x + 1)(x + 3)$</p> 	<p>4. $(2x + 3)(3x - 2)$</p> 

Multiply the polynomials using the FOIL method

<p>5. $3x(4x - 5)$</p>	<p>6. $(-5 - 4x^3)(-5x^2 + 2)$</p>
<p>7. $(x + 4)(x - 11)$</p>	<p>8. $6x^3(-2x^2 + 3x^4)$</p>

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Multiply the following polynomials using any method

9. $(7x)(x^2 + 9x - 2)$	10. $(2x - 3)(x^3 - 3x + 1)$
11. $(2x)(3x - 4)$	12. $(4x - 9)(3x - 11)$
13. $(x - 9)(x - 7)$	14. $-x^2(2x^3 - 14x + 8)$

19. Write an expression for the area of a rectangle that has a length of $3x^2 - 8$ and has a width of $4x + 9$, then simplify the expression.

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