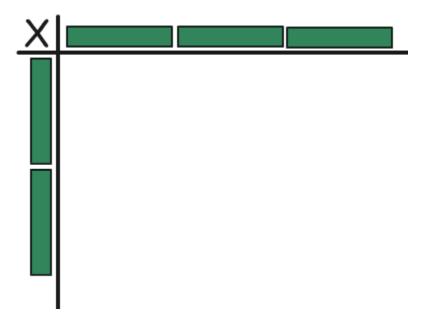
NAME:		
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Multiplying Monomials by Monomials

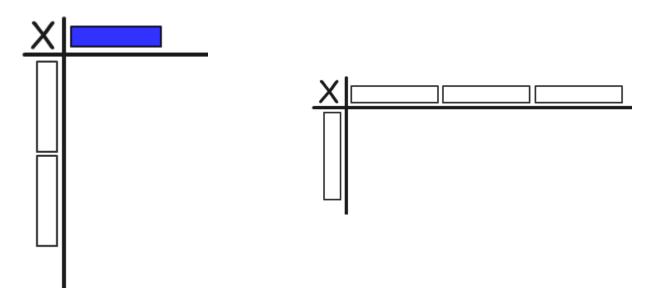
1. In your own words, describe the method for using alge-tiles to multiply to monomials.

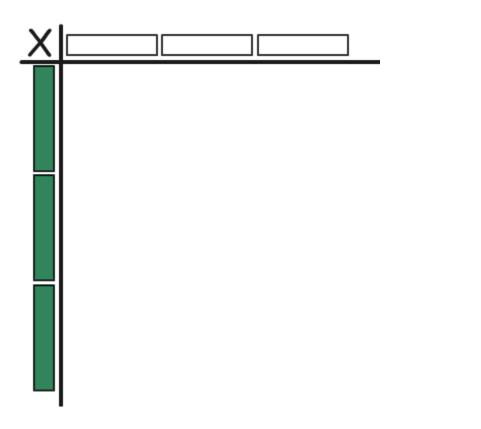
2. Use the following alge-tile representation for the questions below.



- a. Identify the expression of multiplication.
- b. Draw in the rectangle that "completes the area" on the diagram.
- c. Draw in the alge-tiles that complete the area on the diagram.
- d. Algebraically write your product.

3. Write the multiplication expression and the product for the following:





- 4. Using alge-tiles (either online/virtual alge-tiles or physical alge-tiles), model each of the following, including the product. Snap a picture or screenshot and call me over once you're done.
 - a. (3x)(2x)
 - b. (2y)(-x)
 - c. (5x)(3x)
 - d. (-2x)(-2x)
- 5. Find the product.
 - a. (2c)(8b)

g. $(3y^3)(-2y^2)$

b. (3v)(-5v)

h. $(x^2y)(xy)$

c. (6x)(16x)

i. (abc)(abc)

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

j. $(-3x^2y^3z^4)(2x^2yz^3)$

e. $(x)(x^2)$

k. $(3m^2n^3q)(-4n^3p^2q^4)$

f. $(m^3)(m^4)$

- I. $(xy)(2x^2y)(3x^3y^4)$
- 6. When you multiply two monomials, how many terms will there be in your product?

7. Write down three monomials below.
a. Monomial 1:
b. Monomial 2:
c. Monomial 3:
8. Multiply Monomial 1 by Monomial 2.
9. Multiply Monomial 2 by Monomial 3.
10.Multiply Monomial 3 by Monomial 1.
11.Multiply all the products from questions 8 – 10.
12.Find a classmate. Multiply the product from question 11 with your classmates' product from question 11.