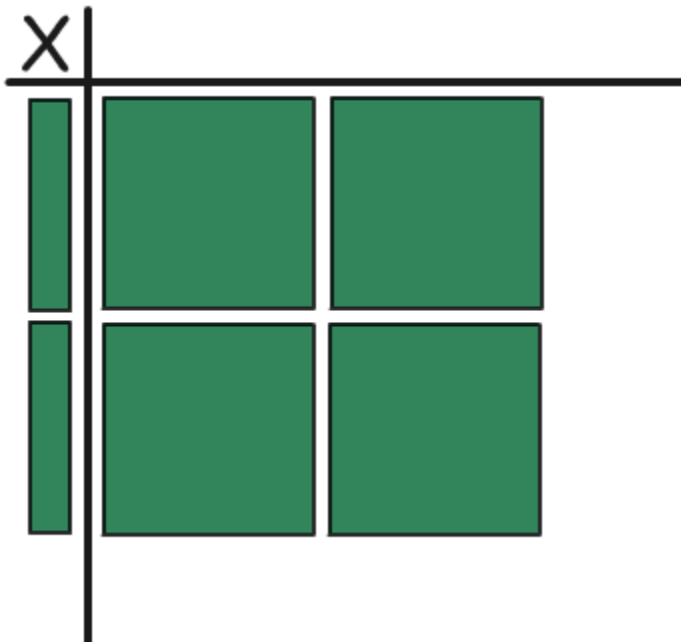


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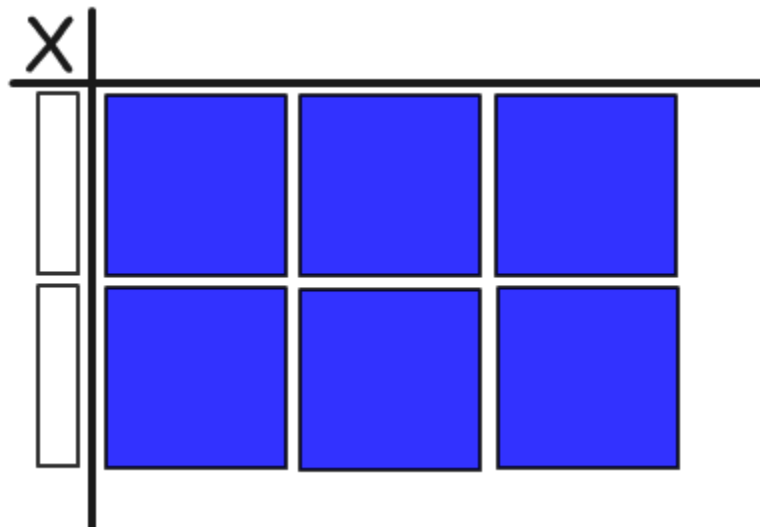
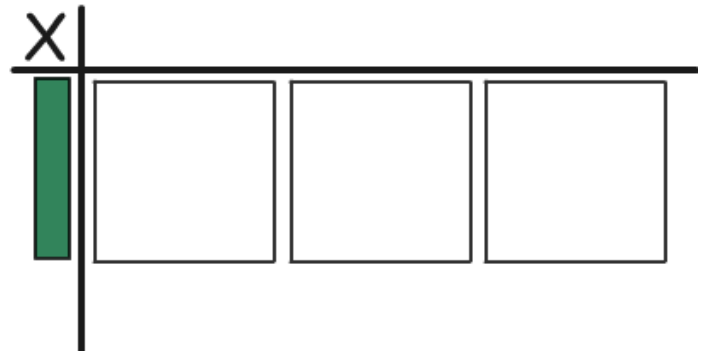
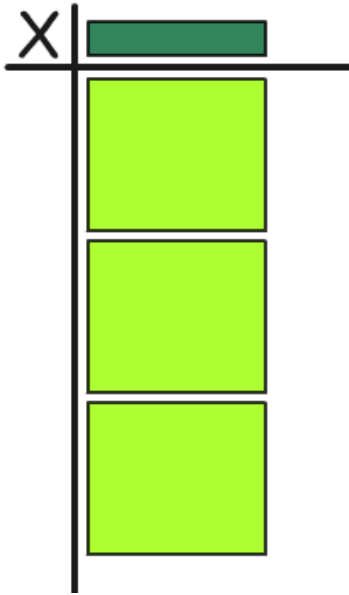
## Dividing a Monomial by a Monomial

1. In your own words, describe how to divide a monomial by a monomial using alge-tiles.
2. In your own words, describe how to divide a monomial by a monomial algebraically.
3. Use the following alge-tile representation for the questions below.



- a. Write out the division expression.
- b. Draw the alge-tiles to represent the missing quotient.
- c. Algebraically, give the expression for the missing quotient.

4. Write out the division expression and find the quotient for each of the following.



5. Divide.

a.  $\frac{3x}{x}$

f.  $\frac{9m^3}{3m}$

b.  $\frac{4x}{2}$

g.  $\frac{25t^3}{15t^3}$

c.  $\frac{8y^2}{-4y}$

h.  $\frac{18c^2d^3}{9cd^2}$

d.  $\frac{-6p^2}{2p}$

i.  $\frac{21a^5b^4c^3}{7a^2b^2c^2}$

e.  $\frac{-256n^2}{-16n}$

6. What happens when we see this?

a.  $\frac{s^4t^2}{3s^4t^2}$

b.  $\frac{s^4t^2}{3s^5t^3}$

7. When you divide a monomial by a monomial, how many terms will you have in your quotient?

8. Write down two monomials below. Monomial 1 should divide Monomial 2 evenly.

a. Monomial 1: \_\_\_\_\_

b. Monomial 2: \_\_\_\_\_

9. Divide Monomial 2 by Monomial 1.

10. Divide Monomial 1 by Monomial 2.

11. Find a classmate. Divide your Monomial 1 by their Monomial 1.