

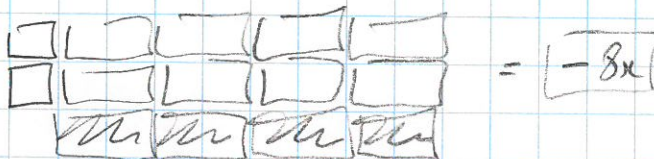
Unit 7 - Algebra Tiles Exploration

① Multiply - Mon x Mono

$$(2)(3x)$$



$$(-2)(4x)$$



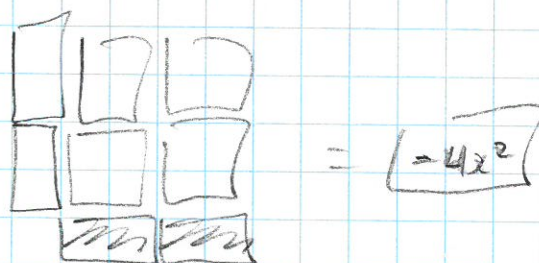
$$(-1)(5x)$$



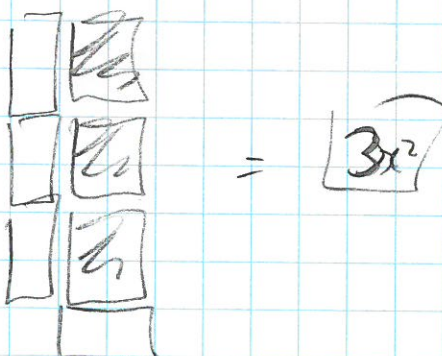
$$(x)(2x)$$



$$(-2x)(2x)$$



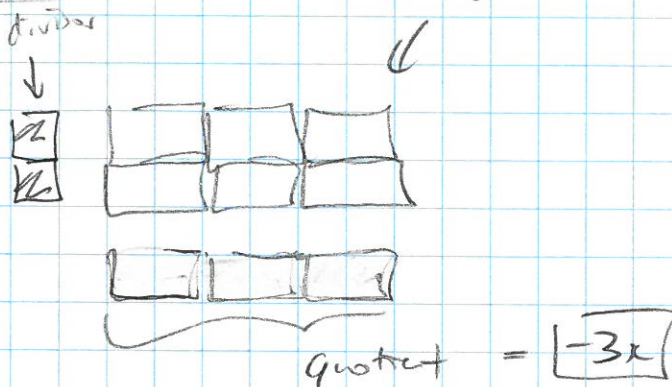
$$(-3x)(-x)$$



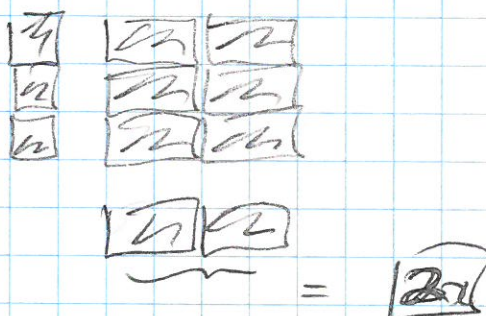
③ Division - How by how

dividend rectangle

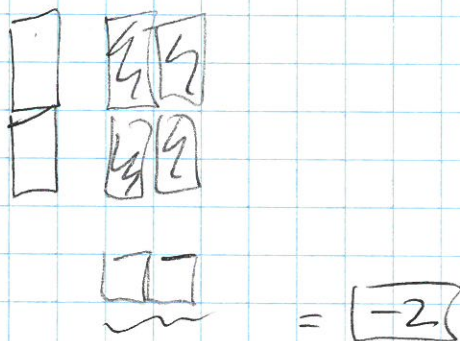
ex. $\frac{-6x}{2}$



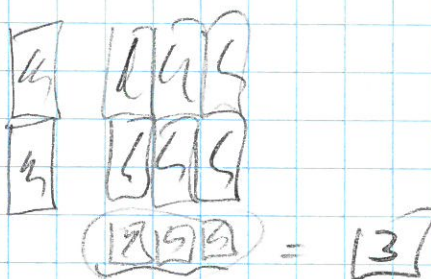
ex. $\frac{6x}{3}$



ex. $\frac{4x}{-2}$



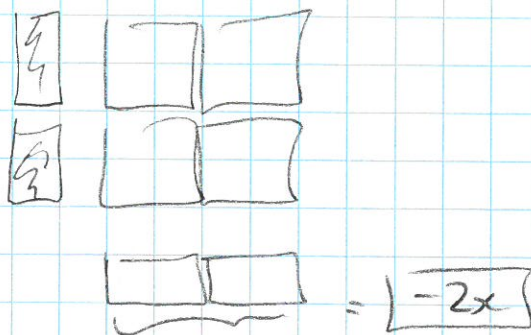
ex. $\frac{6x}{2x}$



ex. $\frac{2x^2}{x}$

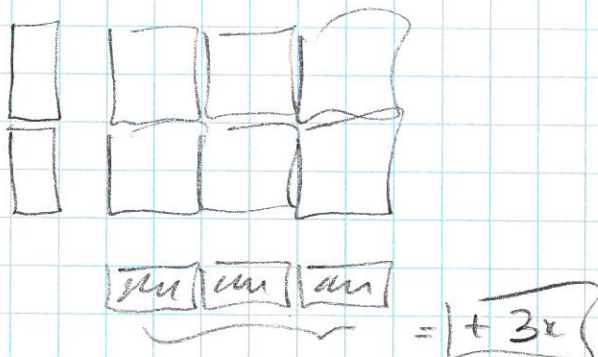


$$\text{ex. } \frac{-4x^2}{2x}$$



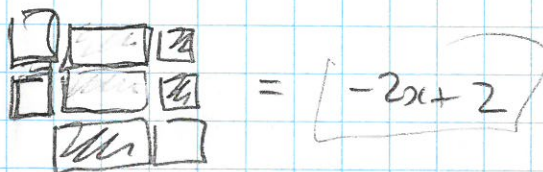
ex. work together!

$$\frac{-6x^2}{-2x}$$



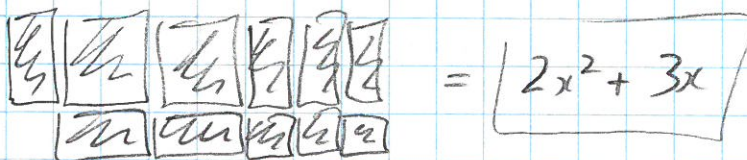
② Multiply - Mon x Binomial (Distribution)

$$-2(x-1)$$



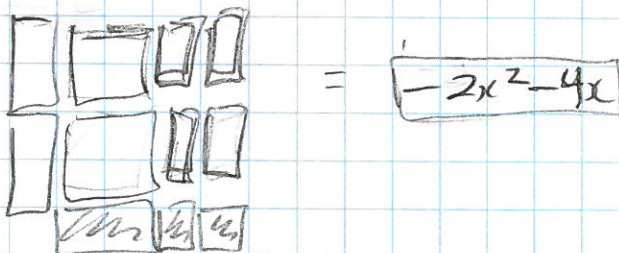
$$= -2x + 2$$

$$x(2x+3)$$



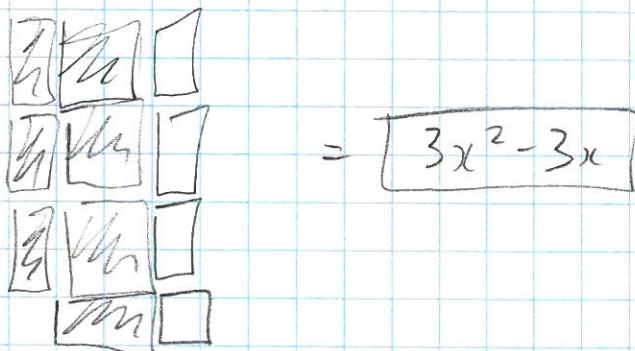
$$= 2x^2 + 3x$$

$$-2x(x+2)$$



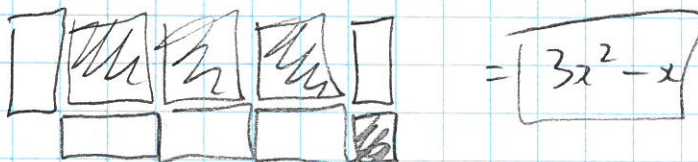
$$= -2x^2 - 4x$$

$$3x(x-1)$$



$$= 3x^2 - 3x$$

$$-x(-3x+1)$$



$$= 3x^2 - x$$

④ Division - Polynomials by Monos

ex. $\frac{6x+4}{2}$

divisor



dividend
(fold out
or a
rectangle)

quotient?
 $= 3x+2$

ex. $\frac{5x+10}{-5}$



$= x-2$

ex. $\frac{6x-3}{-3}$

ex. $\frac{x^2-x}{x}$

ex. $\frac{4x^2+2x}{-2x}$