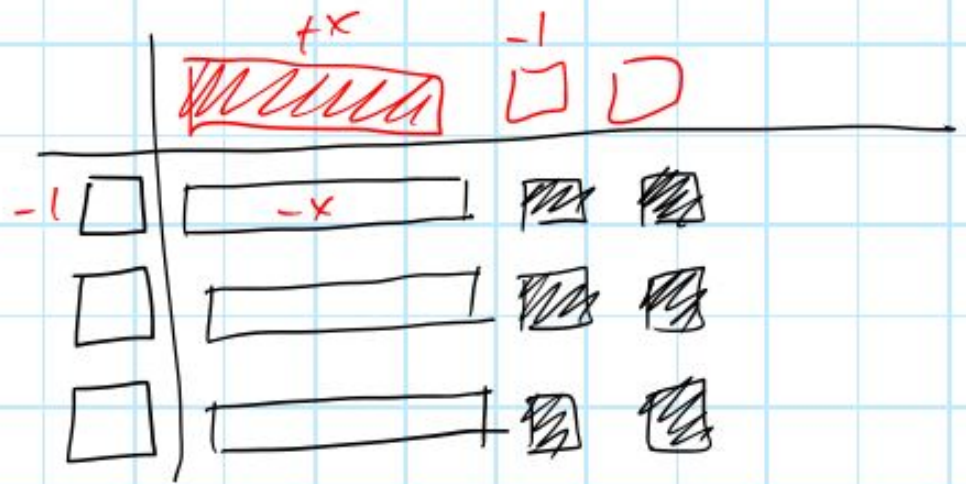


Warm-up

- ① Complete the algebra tile drawing.
Write the question and answer
Using variables



$$\frac{-3x + 6}{-3} = x - 2$$

- ② Simplify

$$a) \frac{15x^5y^2 - 5x^2y}{-5x^4y} = -3x^4y + x$$

$$\begin{aligned} \text{b) } \underline{\underline{\frac{12x^2 - 8x}{2x}}} - 2x(3x+1) &= 6x - 4 + \underline{\underline{(-2x)}}(3x+1) \\ &= 6x - 4 + (-2x)(3x) + (-2x)(1) \\ &= \underline{6x} - 4 - 6x^2 - \underline{2x} \\ &= 4x - 6x^2 - 4 \end{aligned}$$

Degree: add up exponents of all
variables

$$3x^3$$

$$-15x^2y^3z^1$$

$$3^2 x^1 y^1 z^7$$

degree: = 3

= 6

= 9

Degree of a polynomial: take the biggest degree

$$4x^2 + 3^8x + 1x^2z + 1$$

Degree: 2

1

3

0

Degree overall: 3