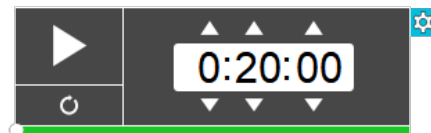Warm-Up   December 11, 2019
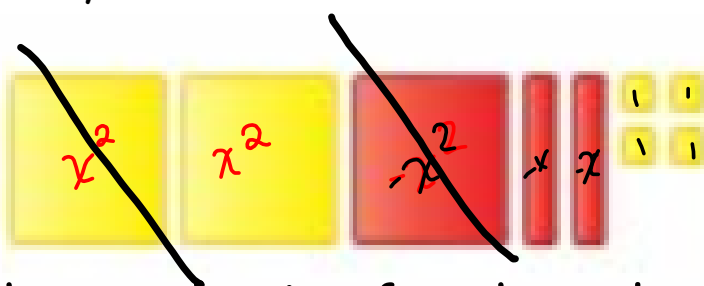
Quiz....MAXIMUM 20 MINUTES!!!

▶   ▲   ▲   ▲   ⚙
         0:20:00
↻   ▼   ▼   ▼

Section 5.2
Like and Unlike Terms

Sketch it into your scribbler

x^2 x^2 $-x^2$ $-x$ $-x$

Write the expression for the polynomial.

$$2x^2 - 1x^2 - 2x + 4$$

Simplified polynomial $\quad 1x^2 - 2x + 4$

Like terms

Terms that can be represented by algebra tiles of the same *size* and *shape*

$-x^2$

$3x^2$

} Like terms

• Group

• Simplify

$-x^2$

$3x$

} unlike terms

• cannot be grouped

• Cannot be simplified

Simplifying Polynomials

To Simplify Polynomials you must first group the like terms!!!

Question $4x^2 - 7x + 1 - 7x^2 + 2x + 3$

Descending order
[Group like terms]

$$4x^2 - 7x^2 - 7x + 2x + 3 + 1$$

Simplify

$$-3x^2 - 5x + 4$$

① Question $4n^2 - 1 - 3n - 3 + 5n - 2n^2$

② Group

[descending order]

$4n^2 - 2n^2 + 5n - 3n - 3 - 1$

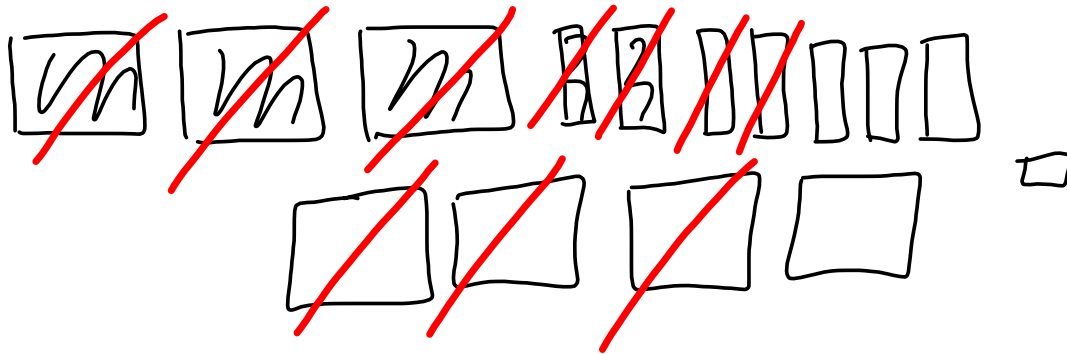③ Simplify

$$2n^2 + 2n - 4$$

Question $14x^2 - 11 + 30x + 3 + 15x - 25x^2$

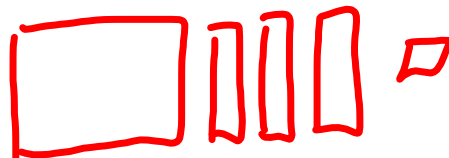# Group $14x^2 - 25x^2 + 30x + 15x - 11 + 3$

Simplify $-11x^2 + 4x - 8$

Simplify by sketching the algebra tiles

$-3b^2 - 2b + 5b + 4b^2 + 1$

Answer:
[Algebra tiles]

Identify the like terms

1) same degree
2) same variable

$$-3x^2, \quad 4x, \quad -2x^2, \quad 2, \quad 5x, \quad -3, \quad -4y^2$$

$$-3x^2, -2x^2$$
$$4x, 5x$$
$$2, -3$$
$$-4y^2$$