



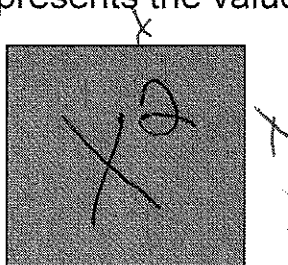
Neg = Red

**ADDING POLYNOMIALS
Algebra Tiles Problems**

The value an Algebra tile has is based on the area the tile represents.

A  small square tile represents a constant single unit, like the number 1. The sides of the square are 1 unit each, thus the area is 1 square unit. The color of the tile tells you if the value of the number is positive (~~yellow~~) or negative (red).

A  long, rectangular tile represents a variable, like the letter x. The sides of the rectangle are 1 unit wide by unknown (x) units long, thus the area is 1x square units. More than one of these tiles represents the quantity you have; example 2x would be two, rectangular tiles. Again, the color of the tile represents the value of the tile. Red is always negative.



A large square tile represents a variable squared, like x^2 . The sides of the square are x units wide by x units long, thus the area is x-squared square units (x times x = x^2). Negative tiles are still Red.

Combining Like Terms (CLT)
Use your tiles to represent solutions for the following sums:

1. $(-2x^2 + 1) + (-x^2) = -3x^2 + 1$

2. $(x - 3) + (2x - 2) = 3x - 5$

3. $-5x^2 + (2x^2 + 5x) = -3x^2 + 5x$

4. $(3x^2 + 2x + 5) + (x^2 - x - 4) = 4x^2 + x + 1$

5. $(5x^2 - 3x - 6) + (x^2 + 3x + 6) = 6x^2$

6. $(x^2 - x - 1) + (6x - 3) = x^2 + 5x - 4$