

WARM UP: Make Rectangles Using Algebra Tiles

Make a rectangle out of each set of algebra tiles.

$6x$	$-6x$
$12x + 9$	

WARM UP: Algebra Tiles

Show the following using algebra tiles:

~~1.~~ $(5)(2)$

~~2.~~ $(5)(-2)$

~~3.~~ $4(3x)$

4. $(-4)(3x) = -12x$

5. $(2x)(x) = 2x^2$

6. $(2x)(x + 3) = l \cdot w = 2x^2 + 6x$

What is the pattern you notice?

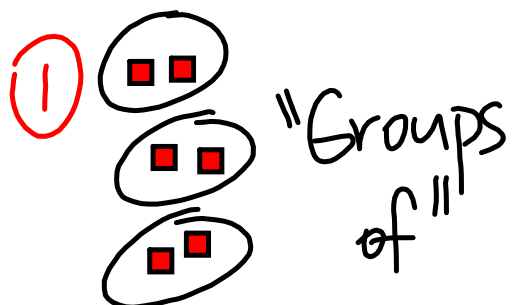


Strategy #1: Multiplication = "Groups of"

1. $(5)(2)$

2. $(5)(-2)$

3. $4(3x)$



(2) $5 \times 2 = 10$

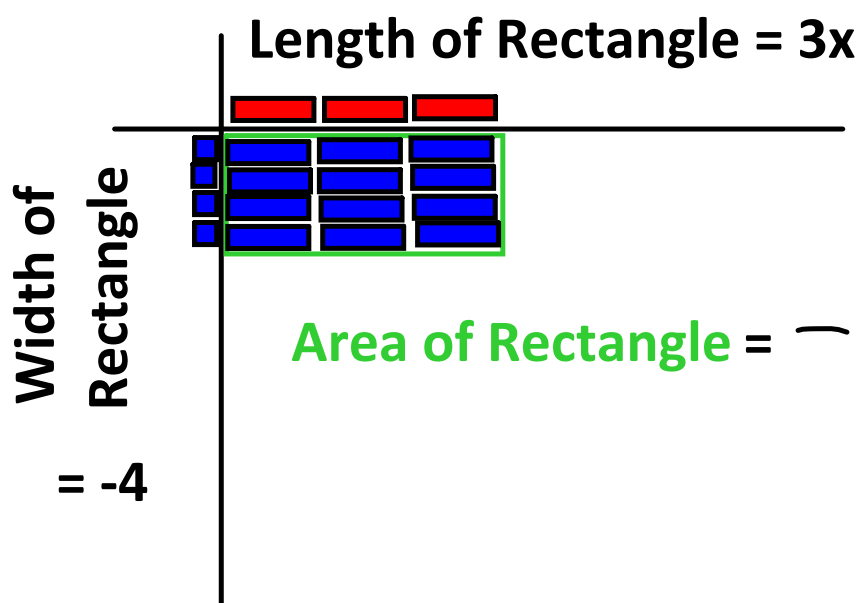
(3) tiles: $A = l \cdot w$



Strategy #2: Multiplication length x width = AREA

$$4. \quad -4(3x) = \ell \cdot w = A$$

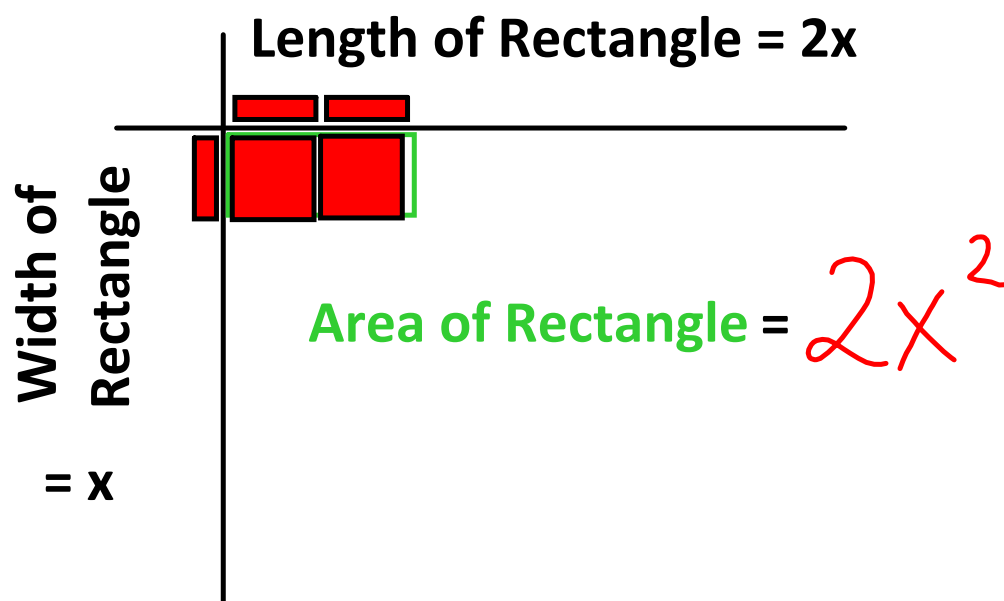
$$= -12x$$





Strategy #2: Multiplication length x width = AREA

5. $(2x)(x)$





Strategy #2: Multiplication length x width = AREA

6. $(2x)(x + 3)$

