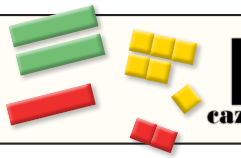
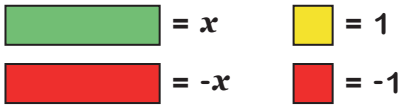
Solving Equations with Unknowns on Both Sides - Using Algebra Tiles



Here are the algebra tiles we will be using:



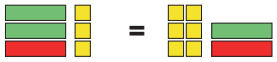
Section A

Solve each equation using the algebra tiles.
Write out the equation of each image as you go.

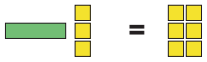
Example

$2x + 3 = x + 6$

$(-x) = (-x)$



$x + 3 = 6$

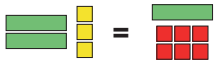


$(-3) = (-3)$

$x = 3$

1) $2x - 3 = x + 6$

2) $2x + 3 = x - 6$

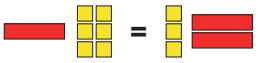


3) $2x - 3 = x - 6$

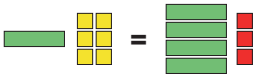
4) $2x - 3 = 6 - x$

5) $2x + 3 = 6 - x$

6) $6 - x = 3 - 2x$



7) $6 + x = 4x - 3$



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Section B

Solve each equation using the algebra tiles.
Write out the equation of each image as you go.

1) $x + 9 = 3x + 3$

2) $3x + 12 = 6x + 3$

3) $7x - 3 = 5 + 5x$

4) $7x - 2 = 3x - 10$

5) $2x - 5 = 4 - x$

6) $7 - 5x = 4 - 2x$

7) $10 - 6x = -3x - 8$

8) $-1 - 6x = -11 - 8x$