





# Using Algebra Tiles to Solve Equations Algebraically #2

Name:

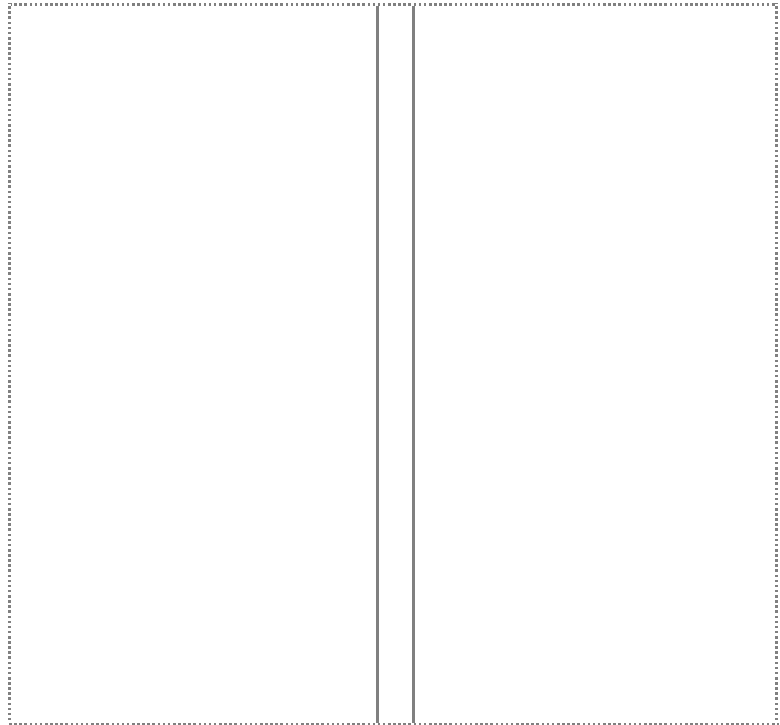
Date:

Period:

Use algebra tiles to help you solve the following equations algebraically (determining the value for  $x$  that makes the equation true). Record all algebraic steps and the tile moves you make. The first step of problem #1 was done as an example.

 =  $x$      =  $-x$      =  $1$      =  $-1$

1.             $3x + 1 = -x + 10$



Solve the following equation (for the value of  $x$  that makes the equation true) algebraically. Show (record) **ALL** algebraic steps. If necessary, use algebra tiles to help you visualize the steps, but you don't have to record the tile moves.

2.     $5x = 3x + 4$

3.     $2x = -x + 6$

4.  $5x = 3x + 10$

5.  $5x = 3x + (-10)$

6.  $5x + 2 = 3x + (-2x) + 10$

7.  $2(x + 1) = 12$

8.  $-5x = -3x + 10$