Using Algebra Tiles
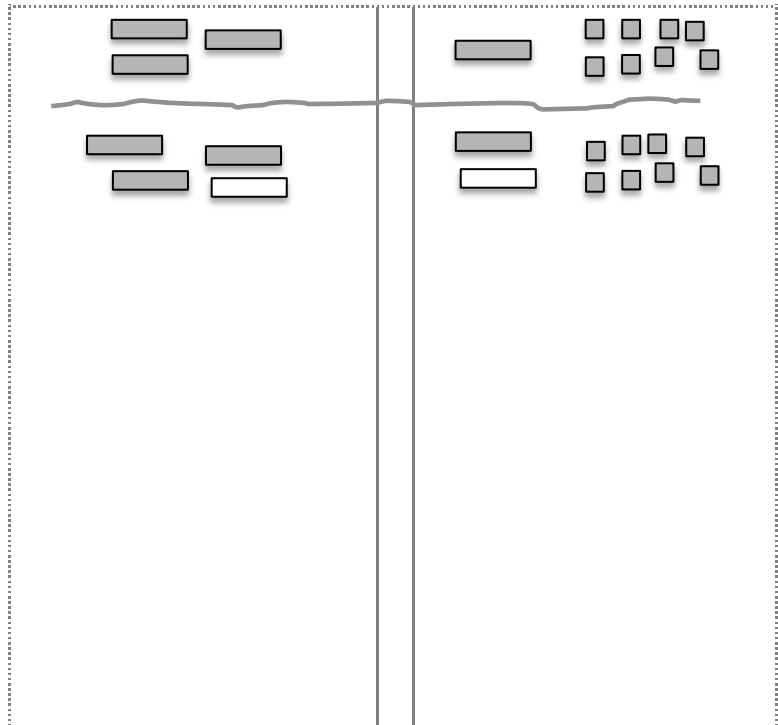## to Solve Equations Algebraically

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.
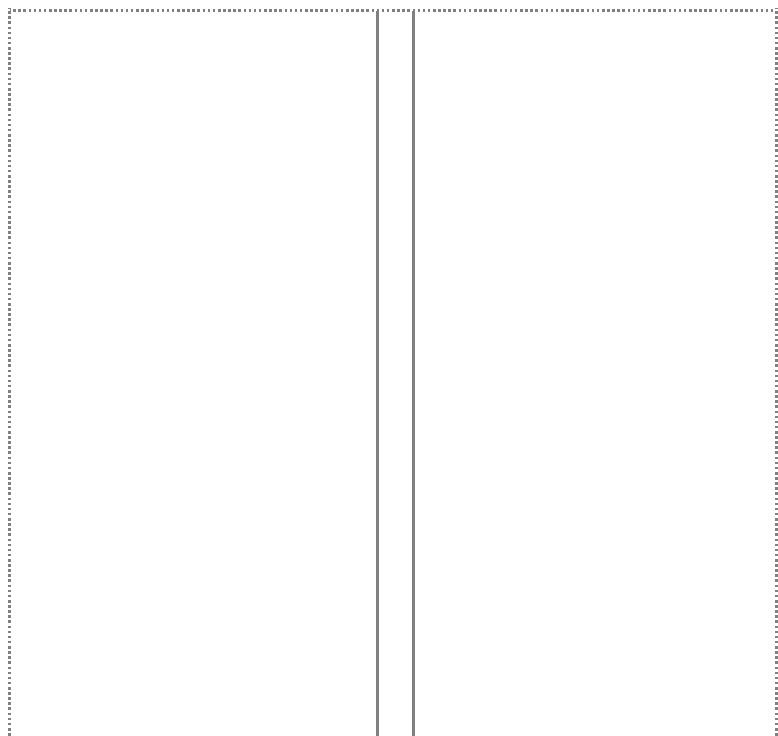
▬ = x   ▭ = -x   ▪ = 1   ▫ = -1

1. $3x = x + 8$

$3x + (-x) = x + 8 + (-x)$

2. $2x = -x + 6$

3. $x = -2x + 6$

4. $4x + 1 = x + 10$

5. $2x + (-1) = -2x + 7$