





Using Algebra Tiles to Solve Equations Algebraically #3

Name:

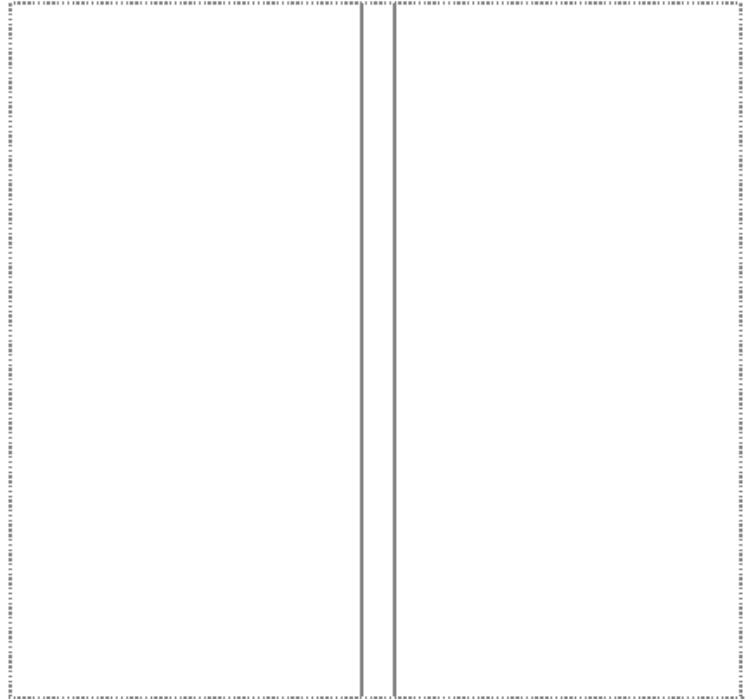
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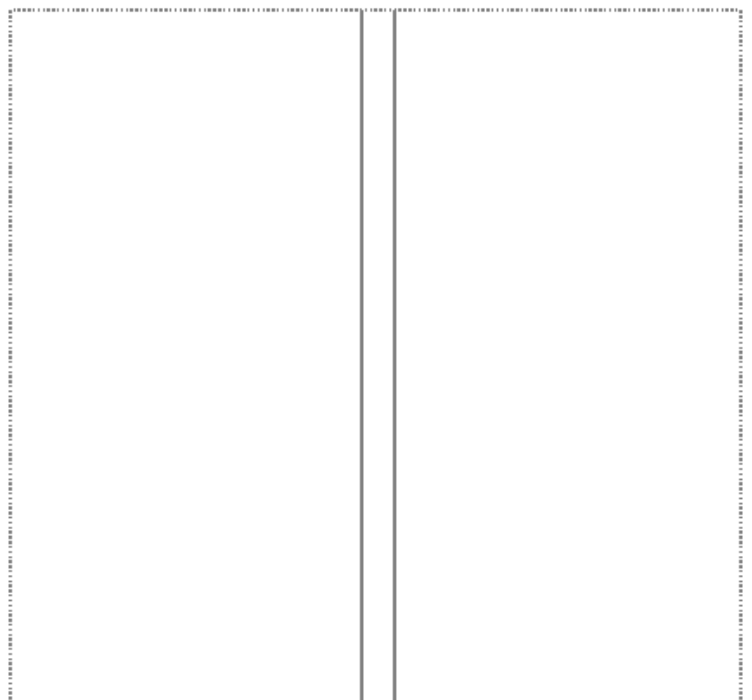
Use algebra tiles to help you solve the following equations algebraically (determining the value for x that makes the equation true). Record all algebraic steps and the tile moves you make. The first step of problem #1 was done as an example.

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

1. $4(x + 1) + 1 + (-x) = 10 + x$



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



For the following equations, you may choose to record your steps with tiles.

Show your work algebraically

3. $5 + 2(x - 4) = 4x + 7$

4. $3x + 3 - x + 2 = x + 5$

5. $4 = 3(2x + 1) - 11$