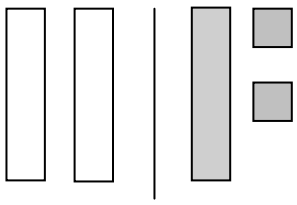
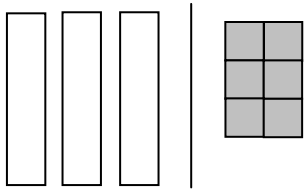
Solving Equations Using Algebra Tiles

Name _____ **Date**_____

Equation	Tile Model	Written Description of Procedure	Mathematical Procedure (Algorithm)
$x + 2 = 3$			
$2x - 4 = 8$			
$2x + 3 = x - 5$			
			

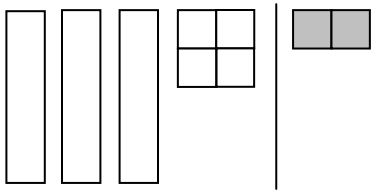
Solving Equations Using Algebra Tiles – Jigsaw Puzzle 1

Name _____ **Date**_____

Equation	Tile Model	Written Description of Procedure	Mathematical Procedure (Algorithm)
$2x = -8$			
			
		1. One negative x is equal to 5. 2. Take the opposite of each side of the equation. 3. One x is equal to five negative units.	
			$3x = 2 + x$ $\underline{-x} \quad \underline{-x}$ $2x = 2$ $\underline{\div 2} \quad \underline{\div 2}$ $\boldsymbol{x = 1}$

Solving Equations, Using Algebra Tiles – Jigsaw Puzzle 2

Name _____ **Date**_____

Equation	Tile Model	Written Description of Procedure	Mathematical Procedure (Algorithm)
$2x + 1 = 5$			
			
		1. Three negative *x*s and two units are the same as 5. 2. Subtract two units from each side of the equation. 3 Divide both sides of the equation into two equal groups. 4. Flip both sides of the equation to make them opposites. 5. One *x* is equal to one negative unit.	
			$2x - 3 = x + 2$ $\underline{-x} \quad \underline{-x}$ $x - 3 = 2$ $\underline{+3} \quad \underline{+3}$ $\boldsymbol{x = 5}$