

Chapter 2 Review

Name: _____

Date: _____ Per: _____

Translate the following into the missing form. If algebra tiles are given, what's the equation? If an equation is given, draw the tiles. You do not need to solve the equation.

	Equation Mat	Algebraic Equation
1.		
2.		$-2 + 3 - (-2x + 1) = 3x + 2 - x - (-x + 3)$
		$-3x + 2x - (4x - 2) = 5x - (3x - 1) + 2$
3.		

Compare the following and determine which expression is greater.

4. **Left** **Right**

Which is greater?

5. **Left** **Right**

Which is greater?

6. **Left** **Right**

Which is greater?

7. $2x - 2 - 3x + 4$ or $-(x + 3) - 2$

Solve the following equations for x . With the algebraic equations, try not to use the tiles.

8.

9. $2x + 6 = 4x - (3 - x)$

10. $3 + 3x - (x - 2) = 3x + 4$

11. $9 - (1 - 3x) = 4 + x - (3 - x)$

Chapter 2 Review

Name: Key

Date: _____ Per: _____

Translate the following into the missing form. If algebra tiles are given, what's the equation? If an equation is given, draw the tiles. You do not need to solve the equation.

	Equation Mat	Algebraic Equation
1.		$-2x + 2 - (-x + 4) = -3 + 2 - (x - 2)$
2.		$-2 + 3 - (-2x + 1) = 3x + 2 - x - (-x + 3)$
		$-3x + 2x - (4x - 2) = 5x - (3x - 1) + 2$
3.		$x + 3 - (x - 1) = x - 2 - (x - 2x)$

Compare the following and determine which expression is greater.

4. **Left** **Right**

Which is greater?

$x-3$ $<$ $x+1$

5. **Left** **Right**

Which is greater?

$x-6$ $<$ $x-2$

6. **Left** **Right**

Which is greater?

$0 < 1$

7. $2x - 2 - 3x + 4$ or $-(x + 3) - 2$

$-x + 2$ $-x - 3 - 2$

$-x + 2$ or $-x - 5$

$x - 2 < x + 5$

Solve the following equations for x . With the algebraic equations, try not to use the tiles.

8.

$4 = 2x - 2$

$6 = 2x$

$3 = x$

9. $2x + 6 = 4x - (3 - x)$

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

$2x + 6 = 5x - 3$

$9 = 3x$

$3 = x$

10. $3 + 3x - (x - 2) = 3x + 4$

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

$2x + 5 = 3x + 4$

$1 = x$

11. $9 - (1 - 3x) = 4 + x - (3 - x)$

$9 - 1 + 3x = 4 + x - 3 + x$

$8 + 3x = 1 + 2x$

$8 + x = 1$

$x = -7$