

Some quick notes:

Solving Equations 7

Combining Like Terms on Both Sides

Name: _____

Key

1) $x - 9 + x = 3 - x + 6$

$$2x - 9 = -x + 9$$

$$3x = 18$$

$$x = 6$$

4) $12x + 13 - 2x = 10x - 4 + 9x - 10$

$$10x + 13 = 19x - 14$$

$$27 = 9x$$

$$3 = x$$

$$x = 3$$

2) $-4x + 7 - 6x = 2x - 35 + 2x$

$$-10x + 7 = 4x - 35$$

$$42 = 14x$$

$$x = 3$$

5) $20 + 3x - 30 = 5x + 20 - 9x + 5$

$$3x - 10 = -4x + 25$$

$$7x = 35$$

$$x = 5$$

3) $4x + 6 + 8x = 20 + 4x + 50$

$$12x + 6 = 4x + 70$$

$$8x = 64$$

$$x = 8$$

6) $3x + 20 + 2x + 20 = 10x - 10 - 25$

$$5x + 40 = 10x - 35$$

$$75 = 5x$$

$$x = 15$$

$$7) 4x - 5 + x = 8 + 3x - 1$$

$$5x - 5 = 3x + 7$$

$$2x = 12$$

$$x = 6$$

$$9) 10x + 2 - 3x = 71 - 6x - 30$$

$$7x + 2 = -6x + 41$$

$$13x = 39$$

$$x = 3$$

$$8) 51 + 12x + 49 - 2x = 20x + 40$$

$$10x + 100 = 20x + 40$$

$$60 = 10x$$

$$x = 6$$

$$10) 18 - 6x + 18 = 3x - 36 + 3x$$

$$-6x + 36 = 6x - 36$$

$$72 = 12x$$

$$x = 6$$

WASN'T THAT FUN!