

Some quick notes:

Solving Equations 6

Variable on both sides

1) $7 - 3x = 4x - 7$

$$14 = 7x$$

$$x = 2$$

2) $x - 2 = 10 - 3x$

$$4x = 12$$

$$x = 3$$

3) $x + 30 = 4x + 3$

$$27 = 3x$$

$$x = 9$$

4) $-22 + 6x = 20 + 5x$

$$x = 42$$

$$x = 42$$

Name: _____

Key

5) $x + 42 = 10x - 30$

$$72 = 9x$$

$$x = 8$$

6) $10x + 10 = 5x + 50$

$$5x = 40$$

$$x = 8$$

7) $2x + 40 = 8x + 4$

$$36 = 6x$$

$$x = 6$$

8) $6x - 10 = 32 - x$

$$7x = 42$$

$$x = 6$$

9) $-8x + 40 = 2x + 10$

$$30 = 10x$$

$$x = 3$$

10) $6x - 4 = 20 - 2x$

$$8x = 24$$

$$x = 3$$

11) $2c - 5 = c + 4$

$$c = 9$$

$$c = 9$$

12) $2x - 1 = x + 11$

$$x = 12$$

$$x = 12$$

13) $40 - 6x = 6x - 8$

$$48 = 12x$$

$$x = 4$$

14) $10x - 15 = -5x + 60$

$$15x = 75$$

$$x = 5$$

15) $8r + 4 = 10 + 2r$

$$6r = 6$$

$$r = 1$$

16) $7a - 17 = 4a + 1$

$$3a = 18$$

$$a = 6$$