

Name: Key

Class:

Topic:

Date:

Main Ideas/Questions	Notes	
<h1>Steps</h1>	<ul style="list-style-type: none"> ✓ Step 1: <u>Distribute</u> if needed. ✓ Step 2: <u>Simplify</u> each side of the equation. ✓ Step 3: <u>Move</u> all variables terms to one side. ✓ Step 4: <u>Solve</u> the remaining 2-step equation. 	
<h1>Examples</h1> <p>ANSWERS:</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p>	<p>1. $5y - 8 = 3y + 12$ $2y - 8 = 12$ $2y = 20$ $y = 10$</p> <p style="text-align: center;">$y = 10$</p>	<p>2. $-6x + 14 = 12 - 8x$ $-2x + 14 = 12$ $2x = -2$ $x = -1$</p>
	<p>3. $7k = 3k - 36$ $4k = -36$ $k = -9$</p> <p style="text-align: center;">$k = -9$</p>	<p>4. $12 - 2u = 9u + 45$ $12 = 11u + 45$ $-33 = 11u$ $u = -3$</p>
	<p>5. $11 - m = 51 - 6m$ $11 + 5m = 51$ $5m = 40$ $m = 8$</p> <p style="text-align: center;">$m = 8$</p>	<p>6. $-10k + 1 = 40 - 7k$ $-1 = 40 + 3k$ $-39 = 3k$ $k = -13$</p>

ANSWERS:

- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____

$$7. 3(6p - 1) = 11p - 45$$

$$18p - 3 = 11p - 45$$

$$\begin{array}{r} -11p \\ \hline 7p - 3 = -45 \end{array}$$

$$7p = -42$$

$$p = -6$$

$$p = -6$$

$$8. 2(4w - 1) = -10(w - 3) + 4$$

$$8w - 2 = -10w + 30 + 4$$

$$8w - 2 = -10w + 34$$

$$18w - 2 = 34$$

$$18w = 36$$

$$w = 2$$

$$9. 9(m - 3) + 3m = 7m + 43$$

$$9m - 27 + 3m = 7m + 43$$

$$12m - 27 = 7m + 43$$

$$\begin{array}{r} -7m \\ \hline 5m - 27 = 43 \end{array}$$

$$5m = 70$$

$$m = 14$$

$$m = 14$$

$$10. -16 - 7(2a + 3) = 23 - 2a$$

$$-16 - 14a - 21 = 23 - 2a$$

$$-14a - 37 = 23 - 2a$$

$$-37 = 23 + 12a$$

$$-60 = 12a$$

$$a = -5$$

$$11. 5x - (x - 18) = 6 - 2(x + 15)$$

$$5x - x + 18 = 6 - 2x - 30$$

$$4x + 18 = -2x - 24$$

$$\begin{array}{r} +2x \\ \hline 6x + 18 = -24 \end{array}$$

$$6x = -42$$

$$x = -7$$

$$12. 8(y + 4) - 2(y - 1) = 70 - 3y$$

$$8y + 32 - 2y + 2 = 70 - 3y$$

$$6y + 34 = 70 - 3y$$

$$9y + 34 = 70$$

$$9y = 36$$

$$y = 4$$

Summary: _____
