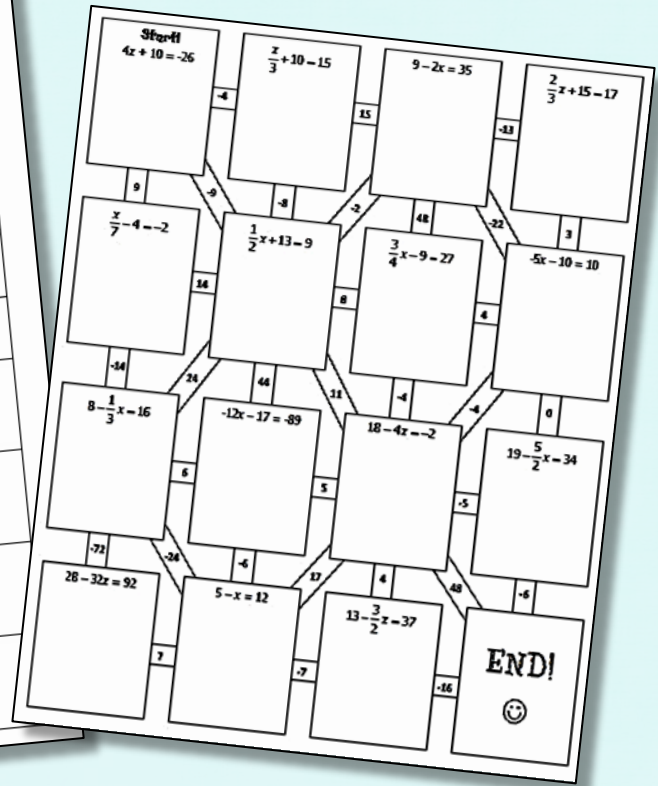


{INCLUDES NOTES!}

Name: _____		Class: _____	
Topic: _____		Date: _____	
Main Ideas/Questions <i>One-Step Equations</i>	Notes 1. $m + 12 = 10$	2. $-2 = g - 9$	
	3. $-7y = -91$	4. $\frac{a}{9} = -4$	
Fractions <i>*To "get rid" of a fraction, multiply by the _____</i>	5. $\frac{2}{3}x - 10$	6. $\frac{4}{9}w = -8$	
	7. $-\frac{6}{5}k - 12$	8. $-\frac{1}{2}m = -9$	
Two-Step Equations	To Solve a Two-Step Equation: 1. Undo the Addition/Subtraction (to remove constant term) 2. Undo the Multiplication/Division (to remove coefficient)		
	9. $6x + 8 = 50$	10. $2x - 5 = 11$	
	11. $13 = -4x + 9$	12. $7 - 3x = 34$	
	13. $\frac{x}{2} - 7 = 9$	14. $11 - \frac{x}{-5} + 8$	
	15. $\frac{3}{5}x + 22 = 28$	16. $-\frac{1}{3}z + 1 = -7$	



# TWO-STEP EQUATIONS

## MAZE ACTIVITY

Created by: ALL THINGS ALGEBRA

Name:	Date:
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Topic:	Class:
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Main Ideas/Questions	Notes/Examples	
<b>One-Step Equations</b>	1. $m + 12 = 10$	2. $-2 = g - 9$
	3. $-7y = -91$	4. $\frac{a}{9} = -4$
<b>Fractions</b>  To "get rid" of a fraction, multiply by the _____!	5. $\frac{2}{3}x = 10$	6. $\frac{4}{9}w = -8$
	7. $-\frac{6}{5}k = 12$	8. $-\frac{1}{2}m = -9$
<b>Two-Step Equations</b>	<b>To Solve a Two-Step Equation:</b> 1. Undo the <b>Addition/Subtraction</b> (to remove constant term) 2. Undo the <b>Multiplication/Division</b> (to remove coefficient)	
	9. $6x + 8 = 50$	10. $2n - 5 = 11$
	11. $13 = -4k + 9$	12. $7 - 3y = 34$

**13.**  $\frac{x}{2} - 7 = 9$

**14.**  $11 = \frac{c}{-5} + 8$

**15.**  $\frac{3}{5}x + 22 = 28$

**16.**  $-\frac{1}{3}m + 1 = -7$

**17.**  $-10 + \frac{7}{4}p = -38$

**18.**  $15 = 9 - \frac{1}{2}x$

*Watch Out!*

The examples below are different in that the multiplication/division is done FIRST, followed by the addition/subtraction.

**19.**  $\frac{x+11}{8} = -3$

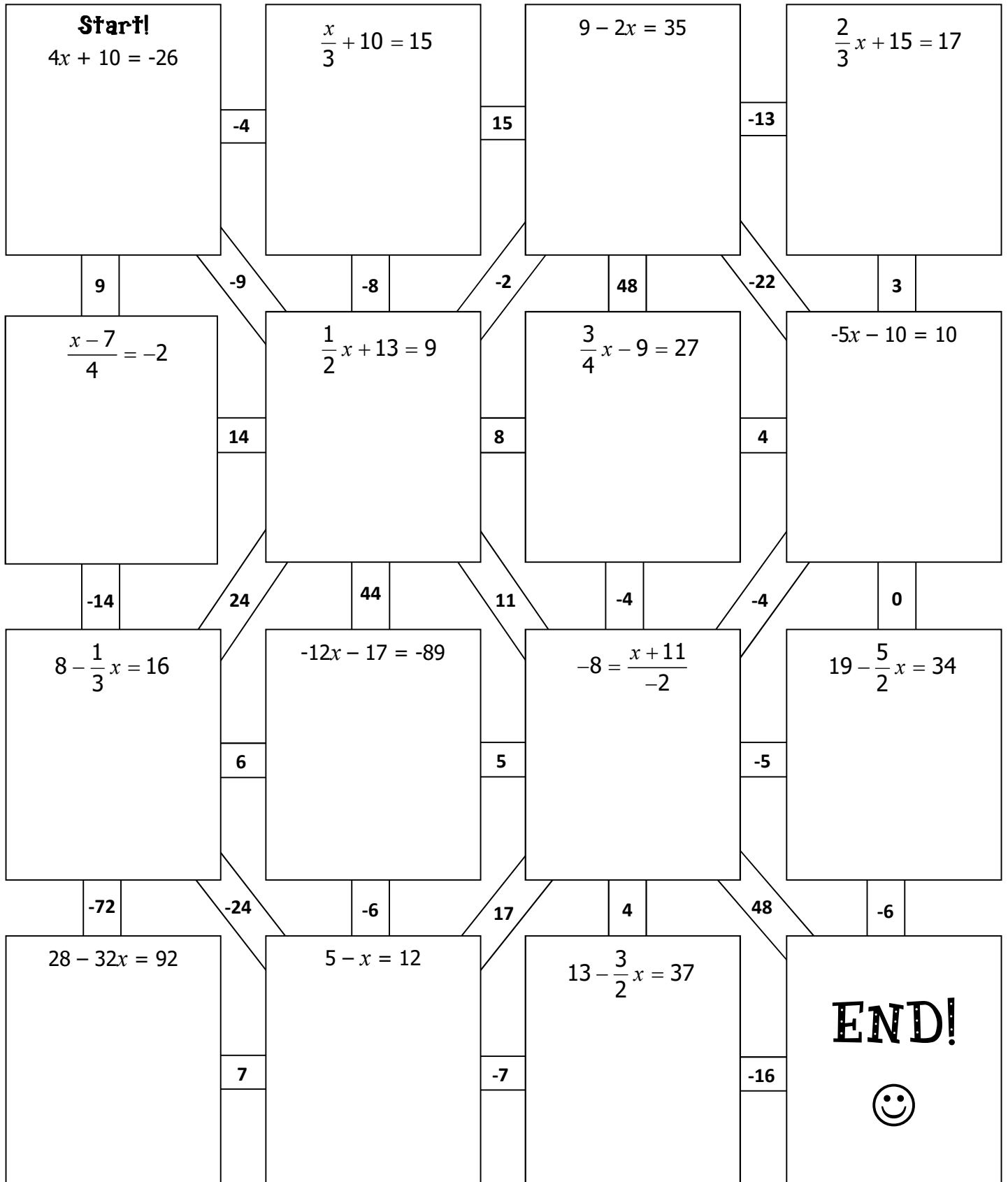
**20.**  $\frac{n-5}{-2} = -7$

**21.**  $1 = \frac{a-13}{-6}$

**22.**  $4 = \frac{w+8}{9}$

# Two-step eQuATion MaZe!

**Directions:** Use your solutions to navigate through the puzzle. **SHOW ALL STEPS!!!!**



Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples	
<p><b>One-Step Equations</b></p>	<p>1. <math>m + 12 = 10</math>  <math>\quad -12 \quad -12</math>  <hr/> <math>m = -2</math></p>	<p>2. <math>-2 = g - 9</math>  <math>\quad +9 \quad +9</math>  <hr/> <math>7 = g</math></p>
	<p>3. <math>-7y = -91</math>  <math>\quad -7 \quad -7</math>  <hr/> <math>y = 13</math></p>	<p>4. <math>\frac{a}{9} = -4 \cdot 9</math>  <hr/> <math>a = -36</math></p>
<p><b>Fractions</b></p> <p>To "get rid" of a fraction, multiply by the <u>reciprocal</u>!</p>	<p>5. <math>\frac{3}{2} \cdot \frac{2}{3}x = 10 \cdot \frac{3}{2}</math>  <hr/> <math>x = 15</math></p>	<p>6. <math>\frac{9}{4} \cdot \frac{4}{9}w = -8 \cdot \frac{9}{4}</math>  <hr/> <math>w = -18</math></p>
	<p>7. <math>\frac{-6}{6} \cdot \frac{6}{5}k = 12 \cdot \frac{-5}{6}</math>  <hr/> <math>k = -10</math></p>	<p>8. <math>-2 \cdot -\frac{1}{2}m = -9 \cdot -2</math>  <hr/> <math>m = 18</math></p>
<p><b>Two-Step Equations</b></p>	<p><b>To Solve a Two-Step Equation:</b></p> <ol style="list-style-type: none"> <li>Undo the <b>Addition/Subtraction</b> (to remove constant term)</li> <li>Undo the <b>Multiplication/Division</b> (to remove coefficient)</li> </ol>	
	<p>9. <math>6x + 8 = 50</math>  <math>\quad -8 \quad -8</math>  <hr/> <math>6x = 42</math>  <math>\quad \frac{6}{6} \quad \frac{6}{6}</math>  <hr/> <math>x = 7</math></p>	<p>10. <math>2n - 5 = 11</math>  <math>\quad +5 \quad +5</math>  <hr/> <math>2n = 16</math>  <math>\quad \frac{2}{2} \quad \frac{2}{2}</math>  <hr/> <math>n = 8</math></p>
	<p>11. <math>13 = -4k + 9</math>  <math>\quad -9 \quad -9</math>  <hr/> <math>4 = -4k</math>  <math>\quad \frac{-4}{-4} \quad \frac{-4}{-4}</math>  <hr/> <math>k = -1</math></p>	<p>12. <math>7 - 3y = 34</math>  <math>\quad -7 \quad -7</math>  <hr/> <math>-3y = 27</math>  <math>\quad \frac{-3}{-3} \quad \frac{-3}{-3}</math>  <hr/> <math>y = -9</math></p>

$$13. \frac{x}{2} - 7 = 9$$

$$\begin{array}{r} \phantom{x} - 7 = 9 \\ \phantom{x} + 7 + 7 \\ \hline \end{array}$$

$$2 \cdot \frac{x}{2} = 16 \cdot 2$$

$$\boxed{x = 32}$$

$$14. 11 = \frac{c}{-5} + 8$$

$$\begin{array}{r} \phantom{11} = \frac{c}{-5} + 8 \\ \phantom{11} - 8 - 8 \\ \hline \end{array}$$

$$-5 \cdot 3 = \frac{c}{-5} \cdot -5$$

$$\boxed{-15 = c}$$

$$15. \frac{3}{5}x + 22 = 28$$

$$\begin{array}{r} \phantom{\frac{3}{5}x} + 22 = 28 \\ \phantom{\frac{3}{5}x} - 22 - 22 \\ \hline \end{array}$$

$$\frac{5}{3} \cdot \frac{3}{5}x = 6 \cdot \frac{5}{3}$$

$$\boxed{x = 10}$$

$$16. -\frac{1}{3}m + 1 = -7$$

$$\begin{array}{r} \phantom{-\frac{1}{3}m} + 1 = -7 \\ \phantom{-\frac{1}{3}m} - 1 - 1 \\ \hline \end{array}$$

$$-3 \cdot -\frac{1}{3}m = -8 \cdot -3$$

$$\boxed{m = 24}$$

$$17. -10 \div \frac{7}{4}p = -38$$

$$\begin{array}{r} \phantom{-10} \div \frac{7}{4}p = -38 \\ \phantom{-10} + 10 + 10 \\ \hline \end{array}$$

$$\frac{4}{7} \cdot \frac{7}{4}p = -28 \cdot \frac{4}{7}$$

$$\boxed{p = -16}$$

$$18. 15 = 9 - \frac{1}{2}x$$

$$\begin{array}{r} \phantom{15} = 9 - \frac{1}{2}x \\ \phantom{15} - 9 - 9 \\ \hline \end{array}$$

$$-2 \cdot 6 = -\frac{1}{2}x \cdot -2$$

$$\boxed{-12 = x}$$

Watch Out!

The examples below are different in that the multiplication/division is done FIRST, followed by the addition/subtraction.

$$19. \frac{x+11}{8} = -3 \cdot 8$$

$$\begin{array}{r} x+11 = -24 \\ -11 - 11 \\ \hline \end{array}$$

$$\boxed{x = -35}$$

$$20. \frac{n-5}{-2} = -7 \cdot -2$$

$$\begin{array}{r} n-5 = 14 \\ +5 +5 \\ \hline \end{array}$$

$$\boxed{n = 19}$$

$$21. 1 = \frac{a-13}{-6} \cdot -6$$

$$\begin{array}{r} -6 = a-13 \\ +13 +13 \\ \hline \end{array}$$

$$\boxed{7 = a}$$

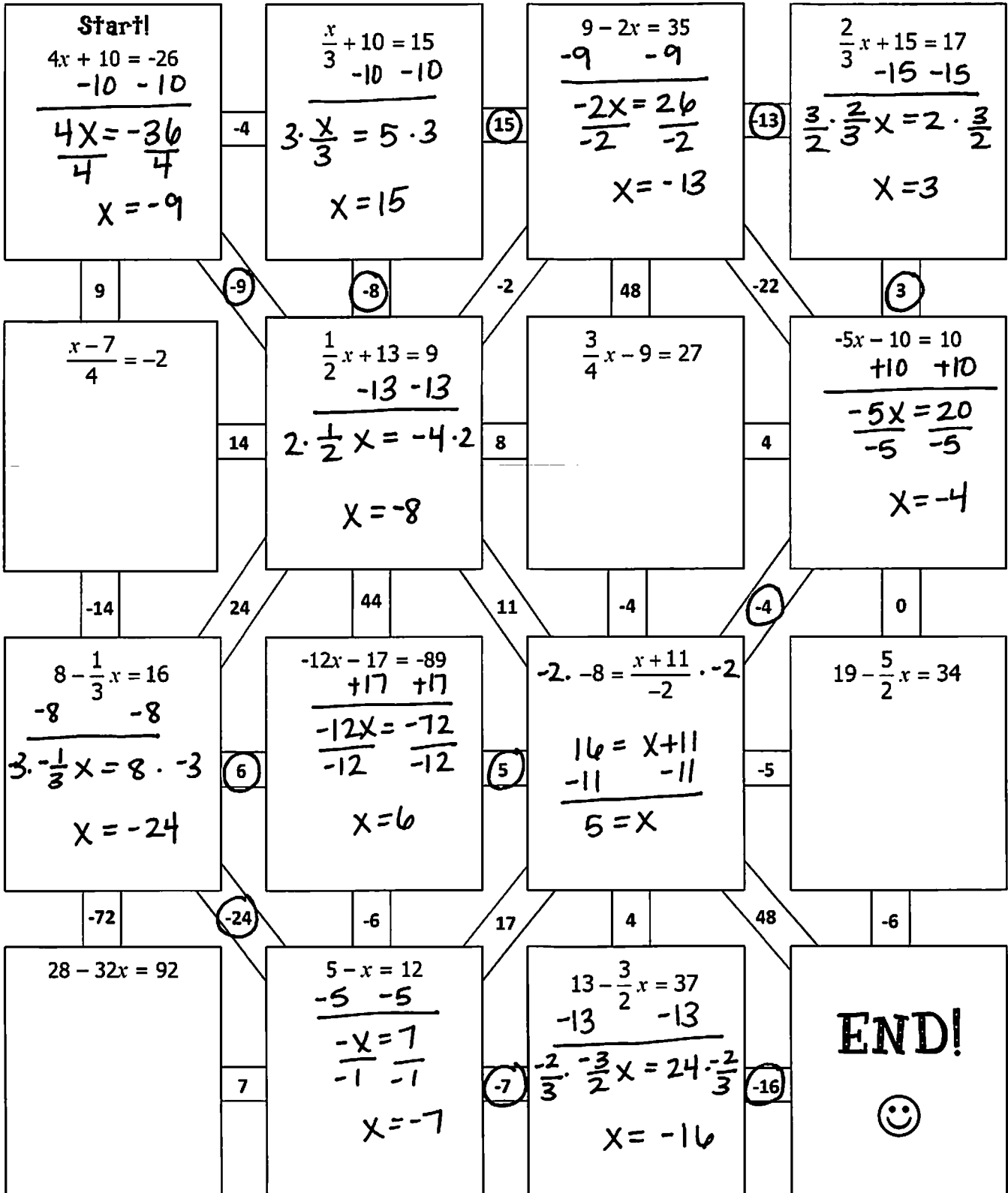
$$22. 4 = \frac{w+8}{9} \cdot 9$$

$$\begin{array}{r} 36 = w+8 \\ -8 -8 \\ \hline \end{array}$$

$$\boxed{28 = w}$$

# Two-step eQuation Maze!

Directions: Use your solutions to navigate through the puzzle. SHOW ALL STEPS!!!!



# Thank you SO MUCH for purchasing this product!

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