

# TWO-STEP EQUATIONS

Cornell Notes  
& Maze Activity!

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

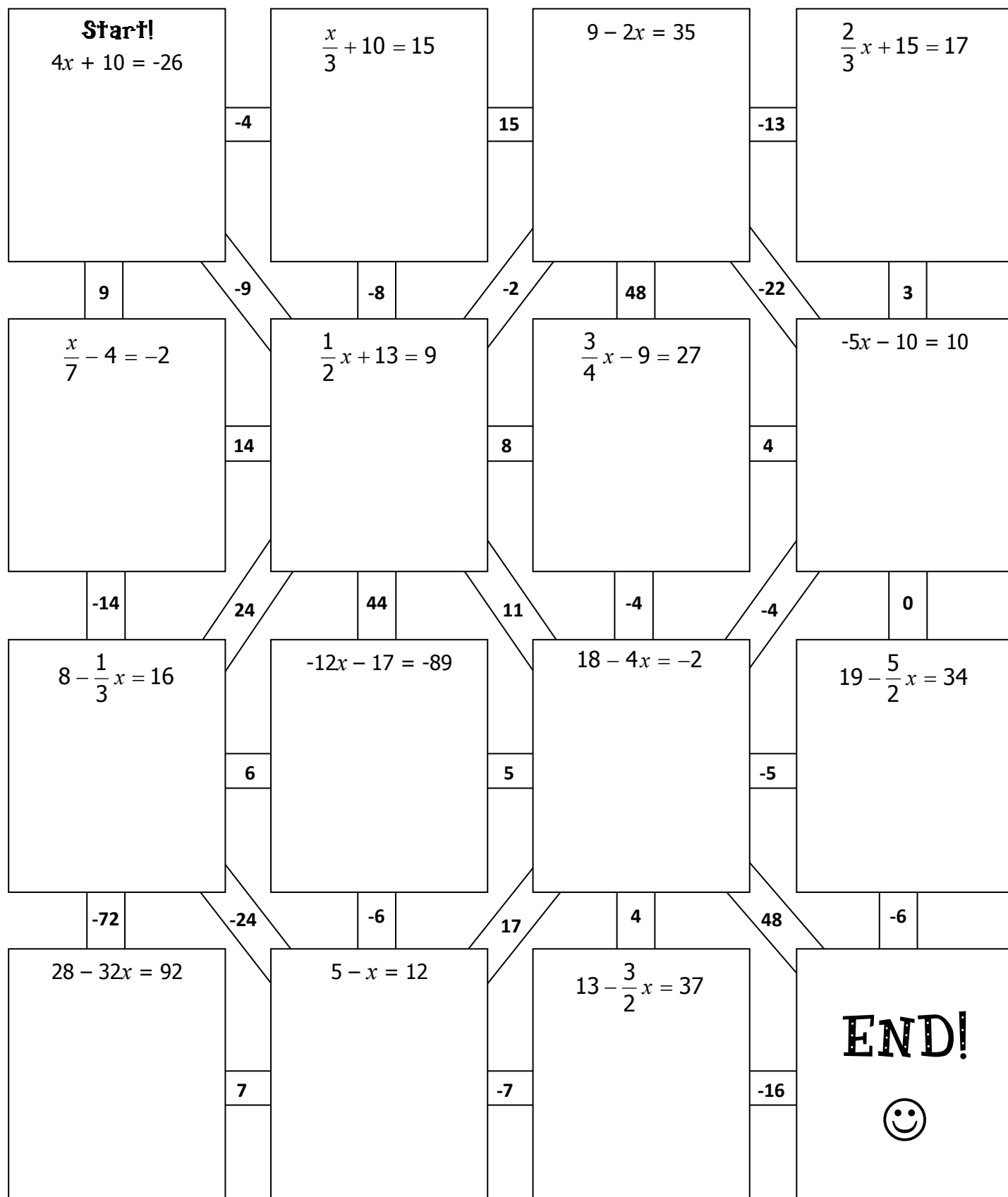
all  
things  
algebra

Name:	Class:
Topic:	Date:

Main Ideas/Questions	Notes	
<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. $2x - 5 = 11$
	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. $-\frac{1}{3}x + 1 = -7$

# two-step eQuATion MaZe!

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



Name:

Key

Class:

Topic:

Date:

Main Ideas/Questions

Notes

One-Step  
Equations

1.  $m + 12 = 10$

$$\begin{array}{r} -12 \quad -12 \\ \hline m = -2 \end{array}$$

2.  $-2 = g - 9$

$$\begin{array}{r} +9 \quad +9 \\ \hline 7 = g \end{array}$$

3.  $-7y = -91$

$$\begin{array}{r} -7 \quad -7 \\ \hline y = 13 \end{array}$$

4.  $\frac{a}{9} = -4(9)$

$$\begin{array}{r} a = -36 \end{array}$$

Fractions

\*To "get rid"  
of a fraction,  
multiply by the

reciprocal!

5.  $\left(\frac{2}{3}\right) \frac{2}{3}x = 10\left(\frac{3}{2}\right)$

$$\boxed{x = 15}$$

6.  $\left(\frac{4}{9}\right) \frac{4}{9}w = -8\left(\frac{9}{4}\right)$

$$\boxed{w = -18}$$

7.  $\left(-\frac{5}{6}\right) -\frac{6}{5}k = 12\left(-\frac{5}{6}\right)$

$$\boxed{k = -10}$$

8.  $\left(-\frac{2}{1}\right) -\frac{1}{2}m = -9\left(-\frac{2}{1}\right)$

$$\boxed{m = 18}$$

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.  $6x + 8 = 50$

$$\begin{array}{r} -8 \quad -8 \\ \hline 6x = 42 \\ \hline \frac{6x}{6} = \frac{42}{6} \\ \hline x = 7 \end{array}$$

10.  $2x + 5 = 11$

$$\begin{array}{r} -5 \quad -5 \\ \hline 2x = 6 \\ \hline \frac{2x}{2} = \frac{6}{2} \\ \hline x = 3 \end{array}$$

11.  $13 = -4x + 9$

$$\begin{array}{r} -9 \quad -9 \\ \hline 4 = -4x \\ \hline \frac{4}{-4} = \frac{-4x}{-4} \\ \hline -1 = x \end{array}$$

12.  $7 - 3x = 34$

$$\begin{array}{r} -7 \quad -7 \\ \hline -3x = 27 \\ \hline \frac{-3x}{-3} = \frac{27}{-3} \\ \hline x = -9 \end{array}$$

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

$$\begin{array}{r} -7 \quad -7 \\ \hline \frac{x}{2} = 2 \\ \hline \left(\frac{2}{2}\right) \frac{x}{2} = 2\left(\frac{2}{2}\right) \\ \hline x = 4 \end{array}$$

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

$$\begin{array}{r} -8 \quad -8 \\ \hline \frac{x}{-5} = 3 \\ \hline (-5) \frac{x}{-5} = 3(-5) \\ \hline x = -15 \end{array}$$

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

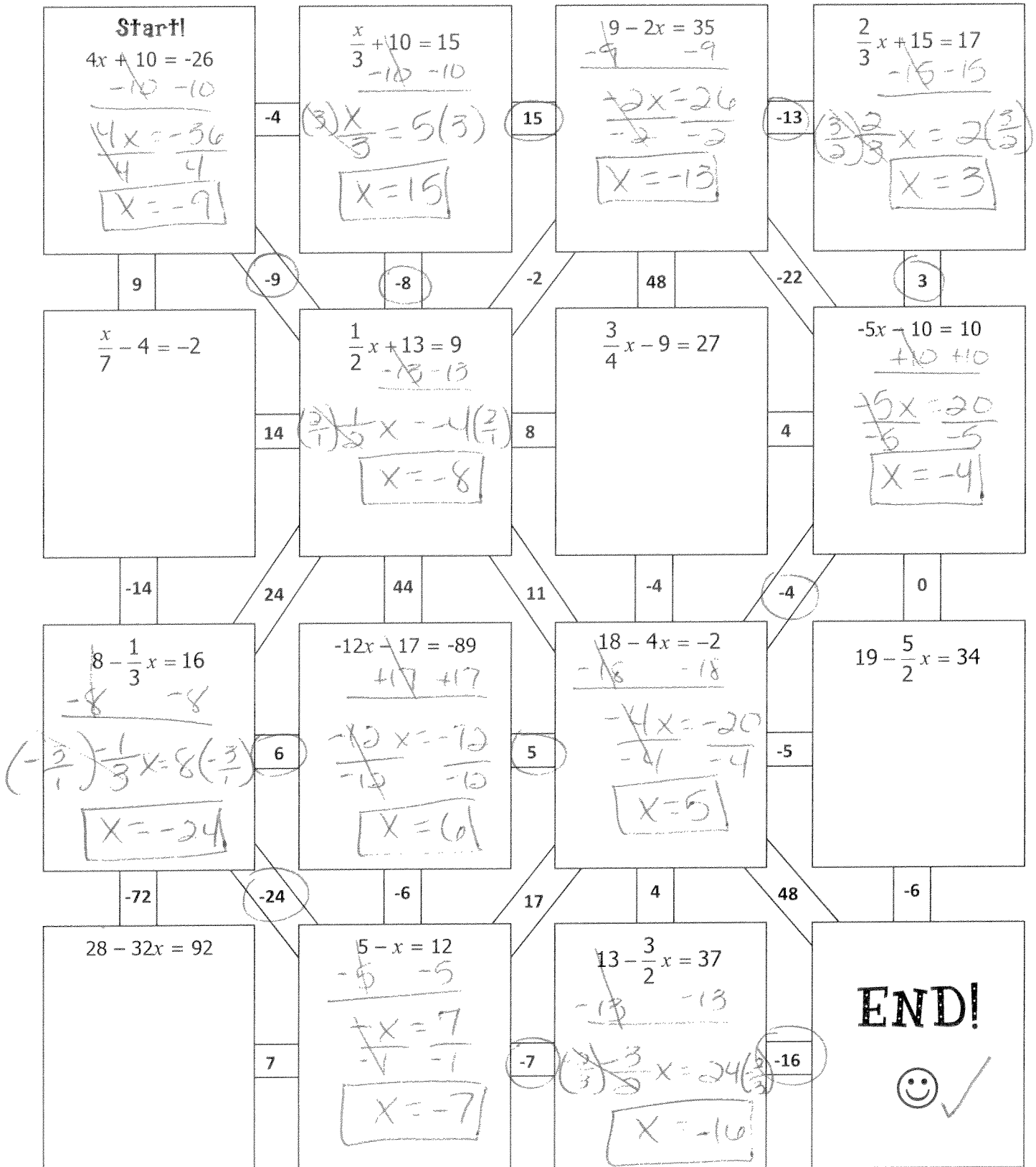
$$\begin{array}{r} -22 \quad -22 \\ \hline \frac{3}{5}x = 6 \\ \hline \left(\frac{5}{3}\right) \frac{3}{5}x = 6\left(\frac{5}{3}\right) \\ \hline x = 10 \end{array}$$

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

$$\begin{array}{r} -1 \quad -1 \\ \hline -\frac{1}{3}x = -8 \\ \hline \left(-\frac{3}{1}\right) -\frac{1}{3}x = -8\left(-\frac{3}{1}\right) \\ \hline x = 24 \end{array}$$

# Two-step eQuATion MaZe!

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



**THANK YOU**  
for downloading this product!



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