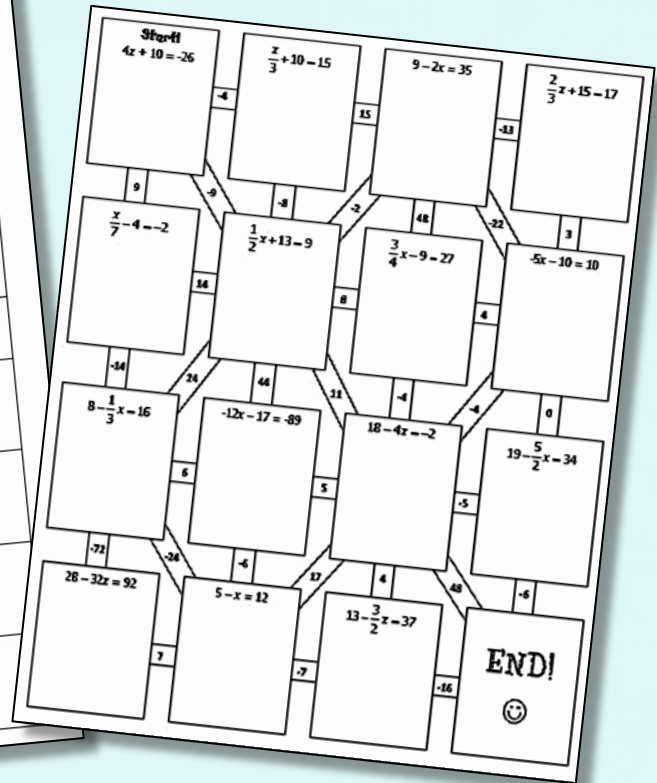


{INCLUDES NOTES!}

Name: _____		Class: _____
Topic: _____		Date: _____
Main Ideas/Questions	Notes	
One-Step Equations	1. $m + 12 = 10$	2. $-2 = g - 9$
	3. $-7y = -91$	4. $\frac{a}{9} = -4$
Fractions <small>*To "get rid" of a fraction, multiply by the denominator.</small>	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. $-\frac{1}{3}x + 1 = -7$



TWO-STEP EQUATIONS

MAZE ACTIVITY

Created by: ALL THINGS ALGEBRA

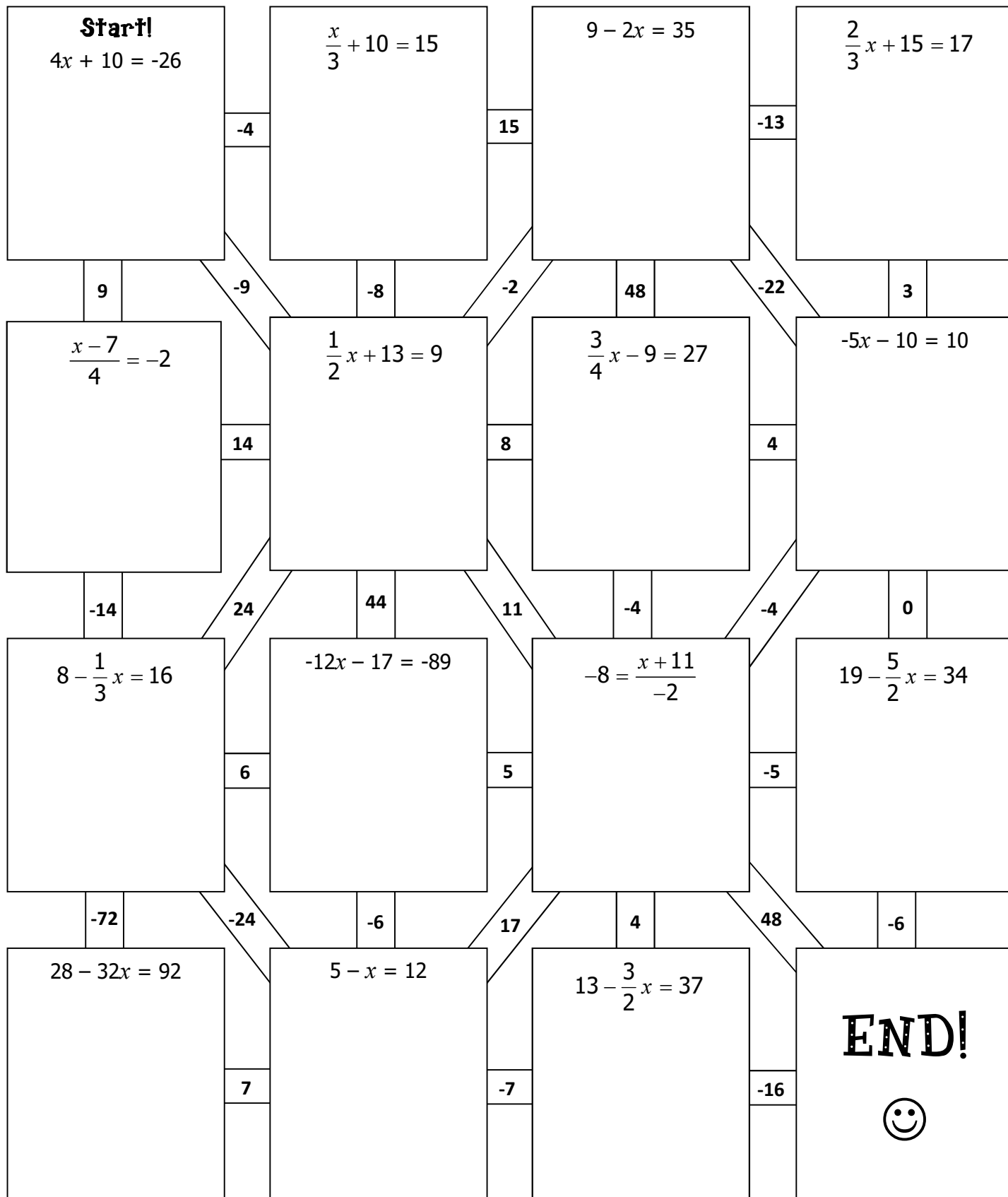
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
One-Step Equations	1. $m + 12 = 10$	2. $-2 = g - 9$
	3. $-7y = -91$	4. $\frac{a}{9} = -4$
Fractions 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. $-\frac{1}{2}m = -9$
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. $2n - 5 = 11$
	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	
One-Step Equations	1. $m + 12 = 10$ $\quad -12 \quad -12$ $\hline \boxed{m = -2}$	2. $-2 = g - 9$ $\quad +9 \quad +9$ $\hline \boxed{7 = g}$
	3. $\frac{-7y}{-7} = \frac{-91}{-7}$ $\boxed{y = 13}$	4. $\frac{a}{9} = -4 \cdot 9$ $\boxed{a = -36}$
Fractions To "get rid" of a fraction, multiply by the <u>reciprocal</u> !	5. $\frac{3}{2} \cdot \frac{2}{3}x = 10 \cdot \frac{3}{2}$ $\boxed{x = 15}$	6. $\frac{9}{4} \cdot \frac{4}{9}w = -8 \cdot \frac{9}{4}$ $\boxed{w = -18}$
	7. $\frac{-6}{6} \cdot \frac{6}{5}k = 12 \cdot \frac{-5}{6}$ $\boxed{k = -10}$	8. $\frac{-2}{2} \cdot \frac{1}{2}m = -9 \cdot \frac{-2}{2}$ $\boxed{m = 18}$
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. $6x + 8 = 50$ $\quad -8 \quad -8$ $\hline 6x = 42$ $\quad \frac{6}{6} \quad \frac{6}{6}$ $\hline \boxed{x = 7}$	10. $2n - 5 = 11$ $\quad +5 \quad +5$ $\hline 2n = 16$ $\quad \frac{2}{2} \quad \frac{2}{2}$ $\hline \boxed{n = 8}$
	11. $13 = -4k + 9$ $\quad -9 \quad -9$ $\hline 4 = -4k$ $\quad \frac{-4}{-4} \quad \frac{-4}{-4}$ $\hline \boxed{k = -1}$	12. $7 - 3y = 34$ $\quad -7 \quad -7$ $\hline -3y = 27$ $\quad \frac{-3}{-3} \quad \frac{-3}{-3}$ $\hline \boxed{y = -9}$

$$\begin{array}{r}
 13. \quad \frac{x}{2} - 7 = 9 \\
 \quad \quad +7 \quad +7 \\
 \hline
 2 \cdot \frac{x}{2} = 16 \cdot 2 \\
 \boxed{x = 32}
 \end{array}$$

$$\begin{array}{r}
 14. \quad 11 = \frac{c}{-5} + 8 \\
 \quad \quad -8 \quad -8 \\
 \hline
 -5 \cdot 3 = \frac{c}{-5} \cdot -5 \\
 \boxed{-15 = c}
 \end{array}$$

$$\begin{array}{r}
 15. \quad \frac{3}{5}x + 22 = 28 \\
 \quad \quad -22 \quad -22 \\
 \hline
 \frac{5}{3} \cdot \frac{3}{5} x = 6 \cdot \frac{5}{3} \\
 \boxed{x = 10}
 \end{array}$$

$$\begin{array}{r}
 16. \quad -\frac{1}{3}m + 1 = -7 \\
 \quad \quad -1 \quad -1 \\
 \hline
 -3 \cdot -\frac{1}{3}m = -8 \cdot -3 \\
 \boxed{m = 24}
 \end{array}$$

$$\begin{array}{r}
 17. \quad -10 \div \frac{7}{4}p = -38 \\
 \quad \quad +10 \quad +10 \\
 \hline
 \frac{4}{7} \cdot \frac{7}{4}p = -28 \cdot \frac{4}{7} \\
 \boxed{p = -16}
 \end{array}$$

$$\begin{array}{r}
 18. \quad 15 = 9 - \frac{1}{2}x \\
 \quad \quad -9 \quad -9 \\
 \hline
 -2 \cdot 6 = -\frac{1}{2}x \cdot -2 \\
 \boxed{-12 = x}
 \end{array}$$

Watch Out!

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

$$\begin{array}{r}
 19. \quad \frac{x+11}{8} = -3 \cdot 8 \\
 \quad \quad x+11 = -24 \\
 \quad \quad -11 \quad -11 \\
 \hline
 \boxed{x = -35}
 \end{array}$$

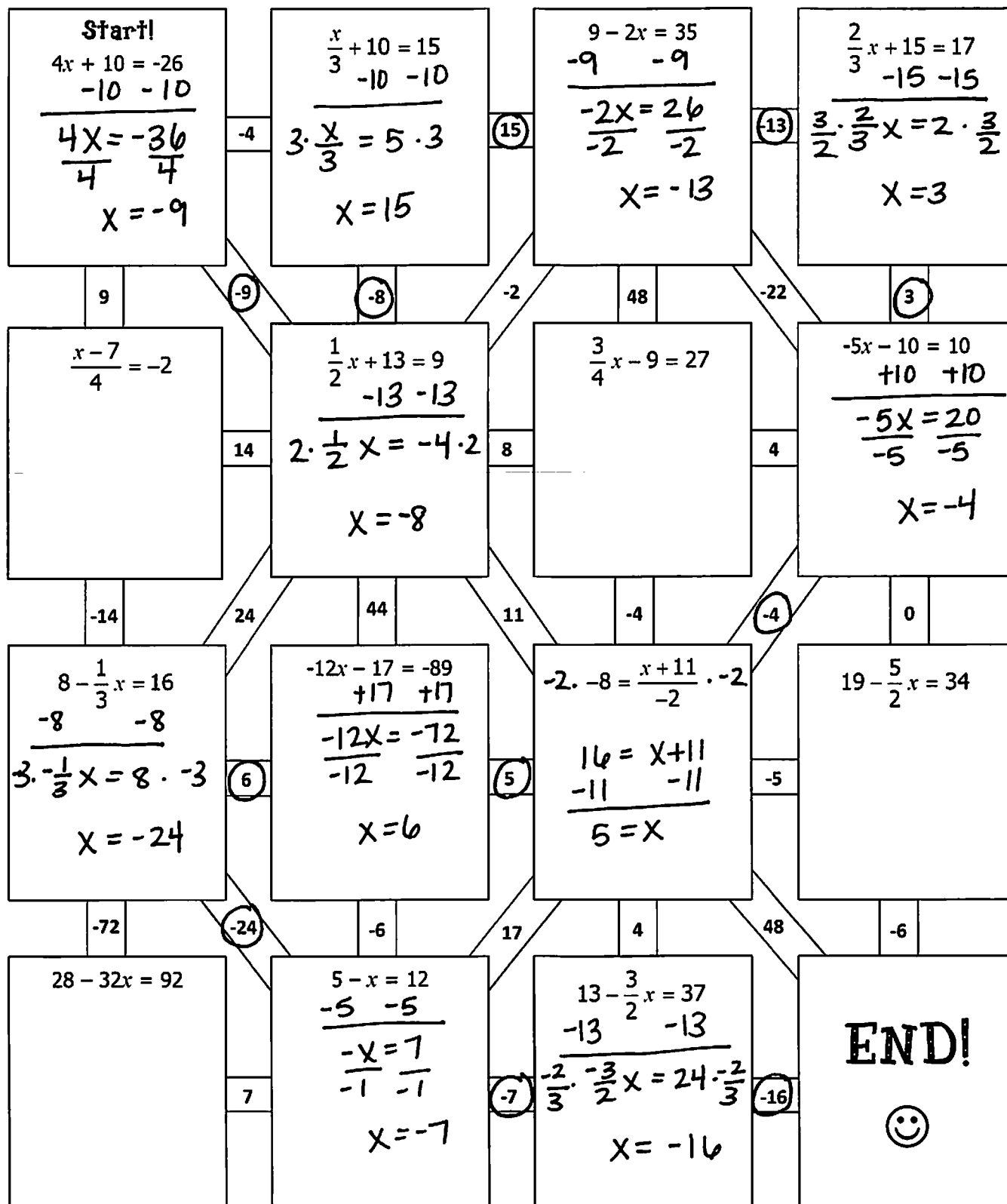
$$\begin{array}{r}
 20. \quad \frac{n-5}{-2} = -7 \cdot -2 \\
 \quad \quad n-5 = 14 \\
 \quad \quad +5 \quad +5 \\
 \hline
 \boxed{n = 19}
 \end{array}$$

$$\begin{array}{r}
 21. \quad 1 = \frac{a-13}{-6} \cdot -6 \\
 \quad \quad -6 = a-13 \\
 \quad \quad +13 \quad +13 \\
 \hline
 \boxed{7 = a}
 \end{array}$$

$$\begin{array}{r}
 22. \quad 4 = \frac{w+8}{9} \cdot 9 \\
 \quad \quad 36 = w+8 \\
 \quad \quad -8 \quad -8 \\
 \hline
 \boxed{28 = w}
 \end{array}$$

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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