

MULTI-STEP EQUATIONS

Finding How Many Solutions

Color by Number

NAME: _____ DATE: _____ CLASS: _____

Multi-Step Equations - How Many Solutions?

Directions: Solve each equation for the missing variable. You must show your work. Circle the correct answer and color the corresponding areas on the picture.

1. $-(6x - 5) = -6x + 3$	$x = \frac{17}{12}$ Brown	No solution Red	$x = \dots$ Or
2. $13 + 2k = 3k + 4(k - 3)$	$k = 5$ Yellow	$k = -5$ Black	$k = \dots$
3. $-5(-5 + 4a) = -23 - 8a$	$a = -4$ Orange	$a = \frac{1}{4}$ Yellow	
4. $2x + 12 = 2(x + 6)$	$x = 0$ Orange	Infinite Solutions Pink	
5. $8n - 2(n + 5) = -3 + 6n$	$n = -3$ Yellow	$n = 13$ Red	
6. $-16 - 6x = -6(x + 3)$	No solution Lt. Blue	$x = \dots$ Blk	
7. $-4(5 + 3x) = -30 - 7x$	$x = 2$ Lt. Green	$x = \dots$	
8. $-7(n + 2) = -14 - 14n$	$n = 14$ Green		
9. $4 - 7n = -(8n + 4) + 2$	$n = -6$ Blue		
10. $7n + 12 = \frac{1}{2}(14n + 24)$	No solution Purple		



About this product:

--Included in this product:

- Worksheet with 10 problems
(4 One Solution, 3 NO Solution, and 3 Infinite Solutions)
- Coloring Picture
- Option to have both on one page(side by side)
- Answer Key to problems page
- Colored Answer Key of Picture

Students will solve 10 Multi-Step Equations with Variables on BOTH sides. When they get their answer they will look at the boxes on the right. Whatever answer matches the answer they got they will color that problem number the corresponding color.

This is a fun way to review Multi-Step Equations with Variables on BOTH sides and color a picture! This also makes a great substitute plans activity or can be used as a review!

I hope you enjoy! Happy Teaching!



You may also like:

Variables on BOTH sides!

Multi-Step Equations Task Cards with QR Codes

COMMON CORE ALIGNED! GREAT FOR CENTERS!

Solve the equation: $3n - 7 = 6n - 2n$ Solve the equation: $-2x - 12 = -5x - 3$

Solve the equation: $-5x = -6(-2 + 7)$ Solve the equation: $6p + 6 = 13 +$

Solve the equation: $6(a + 5) + 5a = 12 + 6a$ Solve the equation: $8 - 6x + 3x = -8x - 3x$ Solve the equation: $-1 + 3x - 4 = -4x - x$

Solve the equation: $4x + 11 = 5 + 6(-x + 12)$

*Set without QR Codes included!

MATH MOVIE Questions BUNDLE

GREAT END OF THE YEAR ACTIVITY!

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MATH MOVIE QUESTIONS to accompany the movie Frozen

MATH MOVIE QUESTIONS to accompany the movie Tangled

MATH MOVIE QUESTIONS to accompany the movie Shrek

MATH MOVIE QUESTIONS to accompany the movie The Sandlot

MATH MOVIE QUESTIONS to accompany the movie The Sandlot

MATH MOVIE QUESTIONS to accompany the movie The Sandlot

Coordinate Graphing Mystery Picture Bundle

ALL 24 MYSTERY PICTURES INCLUDED...and many more!

LIGHTBOX SLIDES

Inspirational Quotes

WELCOME back to SCHOOL

★ GROWING BUNDLE ★

- 22 Quotes
- COLOR VERSION
- BLACK and WHITE VERSION

MULTI-STEP EQUATIONS

With Variables on Both Sides

Color by Number

Equation	Color
$1. 4x - 7 = 2x + 5$	Brown
$2. 20k + 5 = 5k + 65$	Brown
$3. -9y = 20 + y$	Orange
$4. 5x - \frac{1}{4} = 3x - \frac{5}{4}$	Orange
$5. 8k - 15 = 13k$	Yellow
$6. x - 7 = 13 - x$	Green
$7. 8 + 15m = 6m + 12$	Orange
$8. 3(x + 7) = 6(x + 2)$	Green
$9. 8x - 6 = 5x + 12$	Yellow
$10. -2(w + 10) = 6w + 12$	Purple

Click the pictures to check it out!



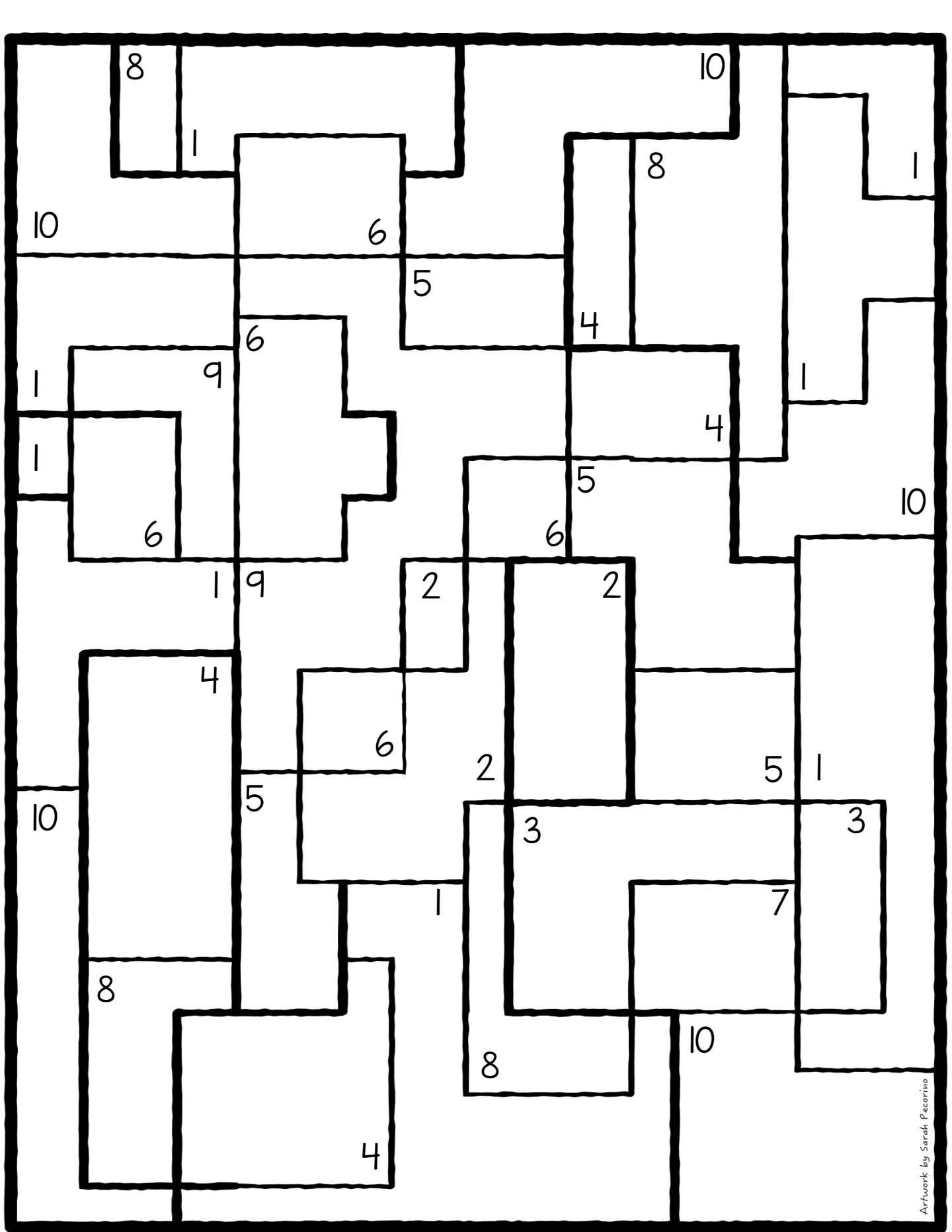
NAME: _____ DATE: _____ CLASS: _____

Multi-Step Equations - How Many Solutions?

Directions: Solve each equation for the missing variable. You must show ALL your work!

Circle the correct answer and color the corresponding areas on the coloring sheet.

1. $-(6x - 5) = -6x + 13$	$x = \frac{17}{12}$ Brown	No solution Red	$x = -\frac{17}{12}$ Orange	Infinite Solutions Yellow
2. $13 + 2k = 3k + 4(k - 3)$	$k = 5$ Yellow	$k = -5$ Black	$k = \frac{1}{5}$ Red	No solution Green
3. $-5(-5 + 4a) = -23 - 8a$	$a = -4$ Orange	$a = \frac{1}{4}$ Yellow	$a = 4$ Green	Infinite Solutions Purple
4. $2x + 12 = 2(x + 6)$	$x = 0$ Orange	Infinite Solutions Pink	No solution Blue	$x = 8$ Red
5. $8n - 2(n + 5) = -3 + 6n$	$n = -13$ Yellow	$n = 13$ Red	Infinite Solutions Green	No solution Orange
6. $-16 - 6x = -6(x + 3)$	No solution Lt. Blue	$x = -\frac{1}{6}$ Blue	$x = \frac{1}{6}$ Orange	Infinite Solutions Lt. Green
7. $-4(5 + 3x) = -30 - 7x$	$x = 2$ Lt. Green	$x = -10$ Red	$x = -2$ Blue	$x = 10$ Green
8. $-7(n + 2) = -14 - 7n$	$n = 14$ Green	Infinite Solutions Pink	$n = -4$ Purple	$n = 4$ Red
9. $4 - 7n = -(8n + 4) + 2$	$n = -6$ Blue	$n = 6$ Red	No solution Brown	Infinite Solutions Purple
10. $7n + 12 = \frac{1}{2}(14n + 24)$	No solution Purple	$n = 0$ Brown	$n = 6$ Green	Infinite Solutions Red

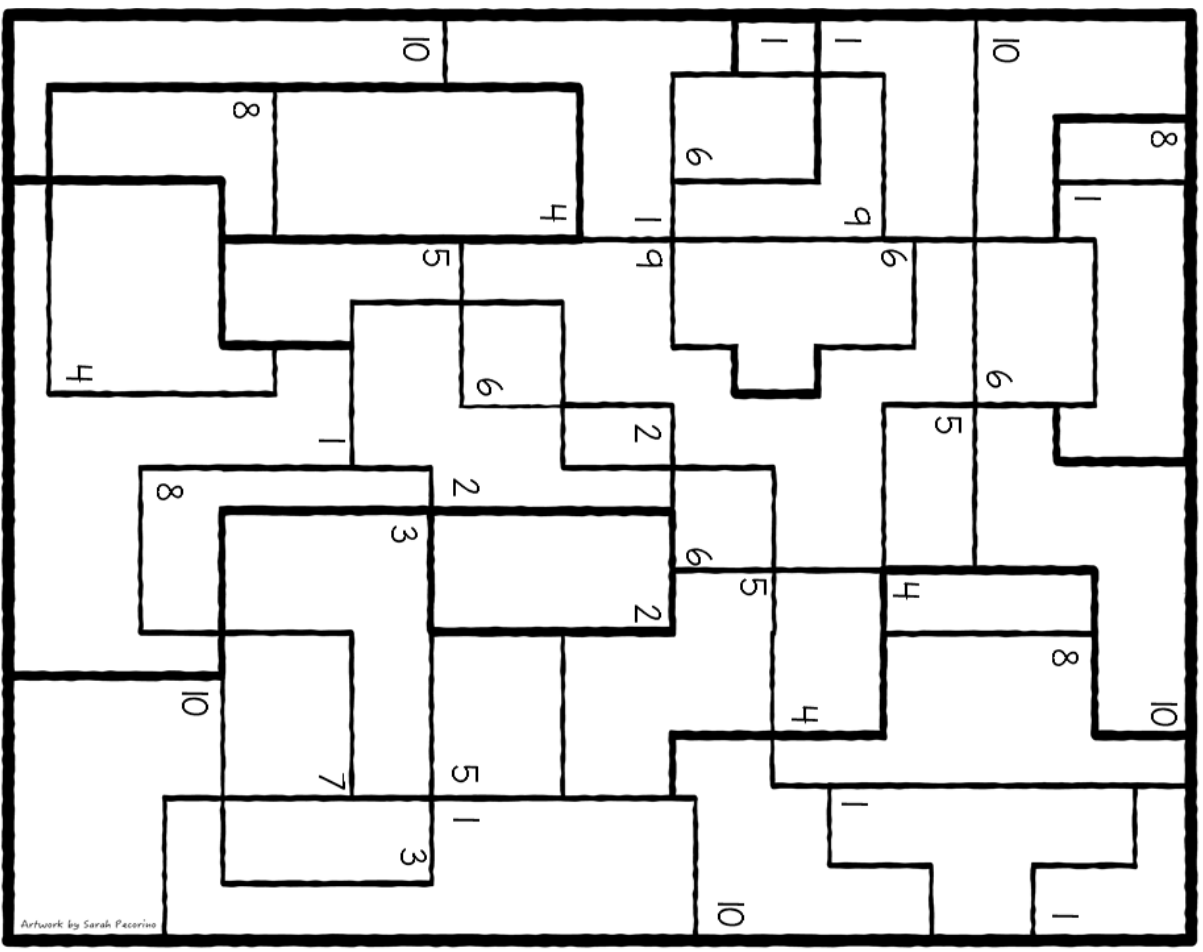


NAME: _____ DATE: _____ CLASS: _____

Multi-Step Equations - How Many Solutions?

Directions: Solve each equation for the missing variable. You must show ALL your work! Circle the correct answer and color the corresponding areas on the coloring sheet!

1. $-(6x - 5) = -6x + 13$	X = $\frac{17}{12}$ Brown	No solution Red	X = $-\frac{17}{12}$ Orange	Infinite Solutions Yellow
2. $13 + 2k = 3k + 4(k - 3)$	K = 5 Yellow	K = -5 Black	K = $\frac{1}{5}$ Red	No solution Green
3. $-5(-5 + 4a) = -23 - 8a$	a = -4 Orange	a = $\frac{1}{4}$ Yellow	a = 4 Green	Infinite Solutions Purple
4. $2x + 12 = 2(x + 6)$	X = 0 Orange	Infinite Solutions Pink	No solution Blue	X = 8 Red
5. $8n - 2(n + 5) = -3 + 6n$	n = -13 Yellow	n = 13 Red	Infinite Solutions Green	No solution Orange
6. $-16 - 6x = -6(x + 3)$	No solution Lt. Blue	X = $-\frac{1}{6}$ Blue	X = $\frac{1}{6}$ Orange	Infinite Solutions Lt. Green
7. $-4(5 + 3x) = -30 - 7x$	X = 2 Lt. Green	X = -10 Red	X = -2 Blue	X = 10 Green
8. $-7(n + 2) = -14 - 7n$	n = 14 Green	Infinite Solutions Pink	n = -4 Purple	n = 4 Red
9. $4 - 7n = -(8n + 4) + 2$	n = -6 Blue	n = 6 Red	No solution Brown	Infinite Solutions Purple
10. $7n + 12 = \frac{1}{2}(14n + 24)$	No solution Purple	n = 0 Brown	n = 6 Green	Infinite Solutions Red



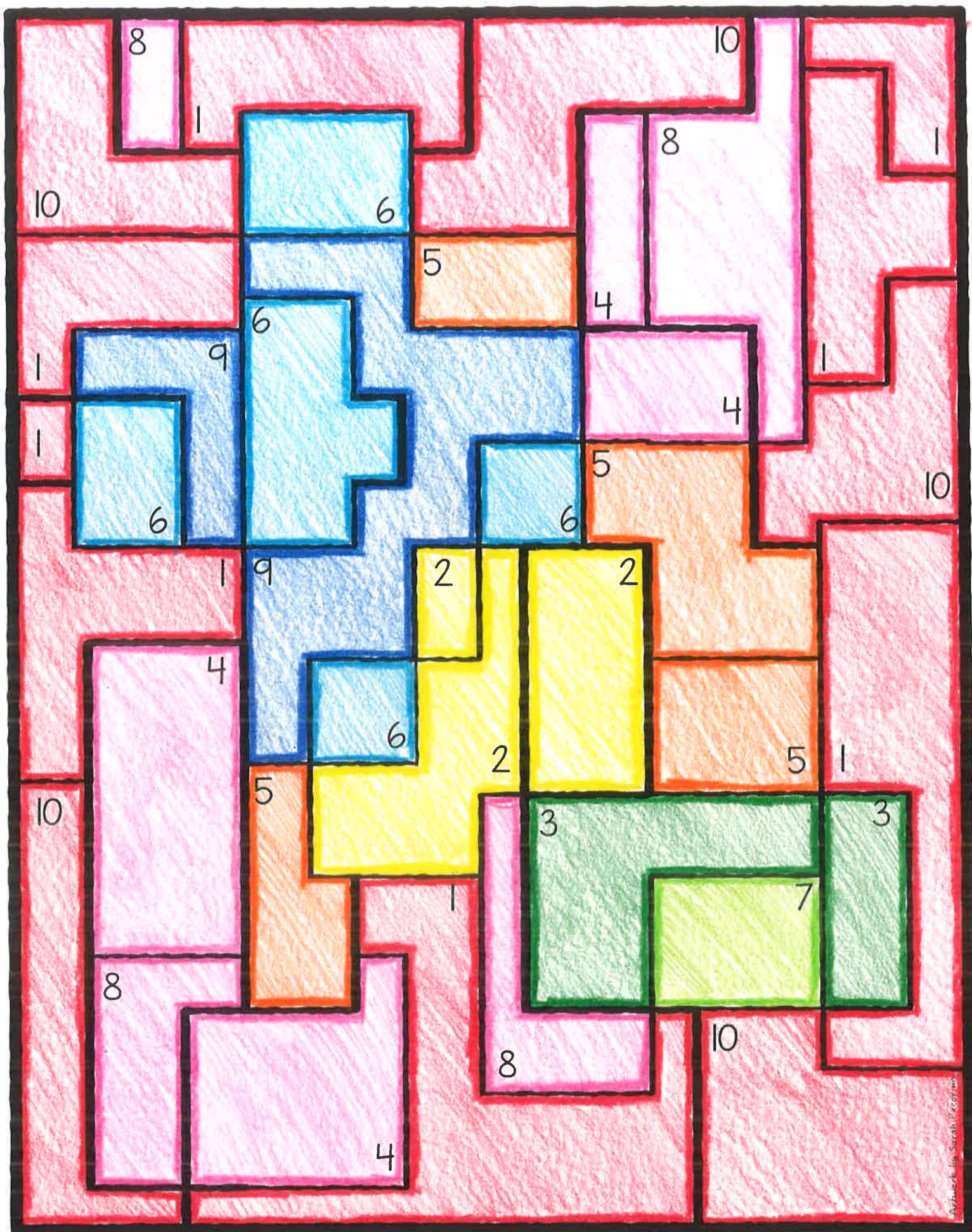
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Multi-Step Equations - How Many Solutions? **KEY**

Directions: Solve each equation for the missing variable. You must show ALL your work!

Circle the correct answer and color the corresponding areas on the coloring sheet.

1. $-(6x - 5) = -6x + 13$	$x = \frac{17}{12}$ Brown	No solution Red	$x = -\frac{17}{12}$ Orange	Infinite Solutions Yellow
2. $13 + 2k = 3k + 4(k - 3)$	$k = 5$ Yellow	$k = -5$ Black	$k = \frac{1}{5}$ Red	No solution Green
3. $-5(-5 + 4a) = -23 - 8a$	$a = -4$ Orange	$a = \frac{1}{4}$ Yellow	$a = 4$ Green	Infinite Solutions Purple
4. $2x + 12 = 2(x + 6)$	$x = 0$ Orange	Infinite Solutions Pink	No solution Blue	$x = 8$ Red
5. $8n - 2(n + 5) = -3 + 6n$	$n = -13$ Yellow	$n = 13$ Red	Infinite Solutions Green	No solution Orange
6. $-16 - 6x = -6(x + 3)$	No solution Lt. Blue	$x = -\frac{1}{6}$ Blue	$x = \frac{1}{6}$ Orange	Infinite Solutions Lt. Green
7. $-4(5 + 3x) = -30 - 7x$	$x = 2$ Lt. Green	$x = -10$ Red	$x = -2$ Blue	$x = 10$ Green
8. $-7(n + 2) = -14 - 7n$	$n = 14$ Green	Infinite Solutions Pink	$n = -4$ Purple	$n = 4$ Red
9. $4 - 7n = -(8n + 4) + 2$	$n = -6$ Blue	$n = 6$ Red	No solution Brown	Infinite Solutions Purple
10. $7n + 12 = \frac{1}{2}(14n + 24)$	No solution Purple	$n = 0$ Brown	$n = 6$ Green	Infinite Solutions Red



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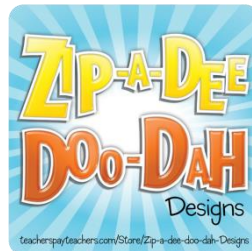
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