

keep scrolling to
get a sneak peek!

Help your Algebra 1 students
review **solving multistep
equations** with these Halloween
review stations! Students will be
eager to get the self-checking
review benefits from these
activities!

SOLVING MULTISTEP EQUATIONS

Halloween Review Stations

Coloring Key:
-5 to -1 Blue
0 to 4 Yellow
5 to 9 Orange

Station 1: SOLVING MULTISTEP EQUATIONS WITH VARIABLES ON ONE AND BOTH SIDES
Question: Match the equations with their corresponding solution. Answer will tell you where and how to color the grid.

A) $3(x+4) - 2 = 16$
 $3x + 12 - 2 = 16$
 $3x + 10 = 16$
 $-10 - 10$
 $3x = 6$
 $\frac{3x}{3} = \frac{6}{3}$
 $x = 2$
orange

B) $\frac{1}{2}(x-6) + 4 = -4$
 $\frac{1}{2}(x-6) = -8$
 $x-6 = -16$
 $x = -10$
yellow

C) $12 = 5x + 3 - 2x$
 $12 = 3x + 3$
 $-3 - 3$
 $9 = 3x$
 $\frac{9}{3} = \frac{3x}{3}$
 $3 = x$
orange

D) $7(x-2) = -14$
 $7x - 14 = -14$
 $7x = 0$
 $x = 0$
yellow

Station 2: HOW MANY SOLUTIONS DOES THE EQUATION HAVE?
Question: Match the equations below to determine the number of solutions it has. Use the answers to spell the name of the station.

1. $2(x+4) + 3x - 5 = 5x - 7$
 $2x + 8 + 3x - 5 = 5x - 7$
 $5x + 3 = 5x - 7$
 $-5x - 5x$
 $3 = -7$
No solution
G

2. $4(x-2) + 2 = 2(2x-3)$
 $4x - 8 + 2 = 4x - 6$
 $4x - 6 = 4x - 6$
 $-4x - 4x$
 $-6 = -6$
One Solution
W

3. $3(x+4) - 2 = 16$
 $3x + 12 - 2 = 16$
 $3x + 10 = 16$
 $-10 - 10$
 $3x = 6$
 $\frac{3x}{3} = \frac{6}{3}$
 $x = 2$
Infinitely Many Solutions
S

4. $5(2x-1) = 10x-5$
 $10x-5 = 10x-5$
 $-10x - 10x$
 $-5 = -5$
No solution
A

5. $6(x-2) + 3 = 2(3x-5) + 4$
 $6x - 12 + 3 = 6x - 10 + 4$
 $6x - 9 = 6x - 6$
 $-6x - 6x$
 $-9 = -6$
One Solution
E

6. $\frac{2}{3}(3x+6) = 2x+4$
 $2x+4 = 2x+4$
 $-2x - 2x$
 $4 = 4$
Infinitely Many Solutions
O

No solution
C

Station 3: SOLVING MULTISTEP EQUATIONS
L: $2(x+5) =$
N: $4x + 7 = 2(x+)$
C: $\frac{x-2}{4} = \frac{x+6}{8}$



3 Stations activities + Answer keys

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Why do you need this?



There are a variety of activities that cover several topics.

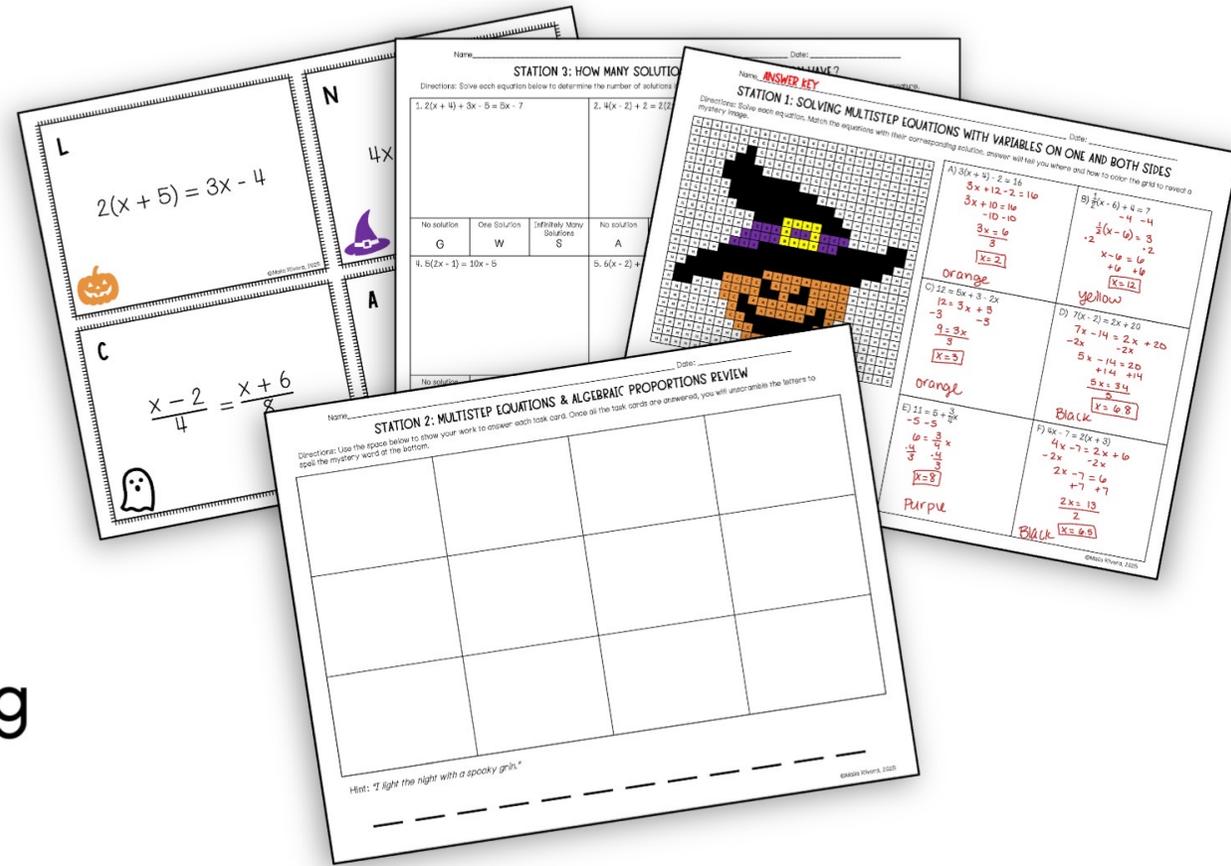


Help your students practice these essential math skills.



The activities have self-checking components so students can receive feedback!

Solving Multistep Equations Review Stations



Multistep Equations Halloween Review Stations *includes:*

L

$$2(x + 5) = 3x - 4$$


N

$$4x + 7 = 2(x + 9)$$


C

$$\frac{x - 2}{4} = x$$


Name: _____ Date: _____

STATION 3: HOW MANY SOLUTIONS DOES THE EQUATION HAVE?

Directions: Solve each equation below to determine the number of solutions it has. Use the answers to spell the name of a spooky Halloween creature.

1. $2(x + 4) + 3x - 5 = 5x - 7$	2. $4(x - 2) + 2 = 2(2x - 3)$	3. $3(x + 4) = 3(x - 1) + x - 9$			
No solution	One Solution	Infinitely Many Solutions	No solution	One Solution	Infinitely Many Solutions
G	W	S	A	E	L
4. $5(2x - 1) = 10x - 5$	5. $6(x - 2) + 3 = 2(3x - 1)$				
No solution	One Solution	Infinitely Many Solutions	No solution	One Solution	Infinitely Many Solutions
E	H	L	I		

What word do your answers spell?
Hint: "In spooky myths & tales, I guard treasures or cause mischief."

Name: _____ Date: _____

STATION 2: MULTISTEP EQUATIONS & ALGEBRAIC PROPORTIONS REVIEW

Directions: Use the space below to show your work to answer each task card. Once all the task cards are answered, you will unscramble the letters to spell the mystery word at the bottom.

Hint: "I light the night with a spooky grin."

 3 printable station activities

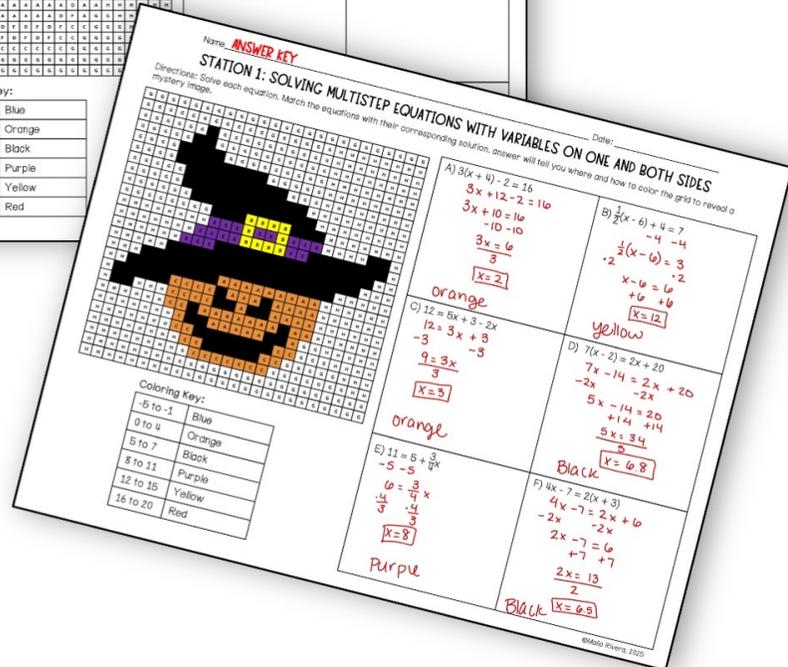
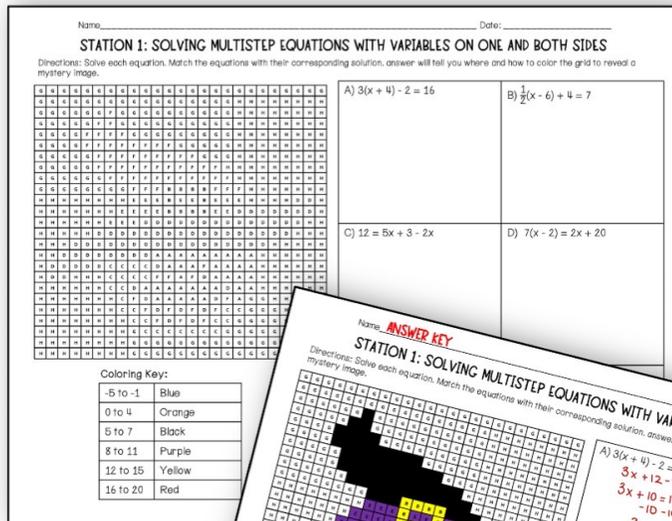
 detailed answer keys

Skill: Solving Multistep Equations with Variables on One & Both Sides

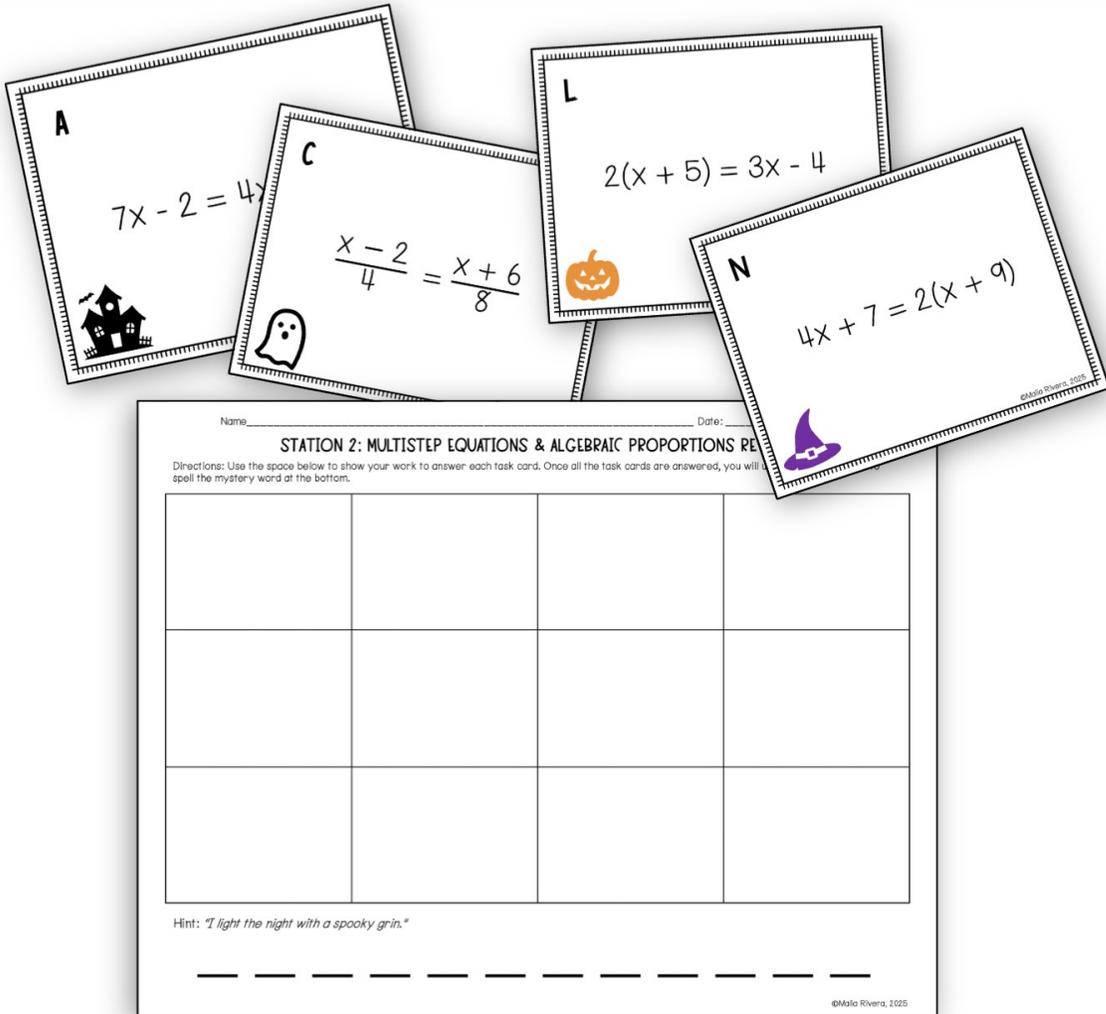
Students will solve multistep equations with variables on one and both sides of the equation. Then they will color the grid based on their answers.

Includes:

- 6 questions
- Worksheet with blank grid
- Answer key



station 2



The image shows a recording sheet and three task cards for a math station. The recording sheet is titled "STATION 2: MULTISTEP EQUATIONS & ALGEBRAIC PROPORTIONS RE" and includes a grid for showing work and a hint: "I light the night with a spooky grin." The task cards are labeled A, C, L, and N, each with an equation and a Halloween-themed illustration.

Task Card A: $7x - 2 = 4$ (Illustration: House)

Task Card C: $\frac{x-2}{4} = \frac{x+6}{8}$ (Illustration: Ghost)

Task Card L: $2(x+5) = 3x - 4$ (Illustration: Pumpkin)

Task Card N: $4x + 7 = 2(x+9)$ (Illustration: Witch)

Recording Sheet Title: STATION 2: MULTISTEP EQUATIONS & ALGEBRAIC PROPORTIONS RE
Directions: Use the space below to show your work to answer each task card. Once all the task cards are answered, you will spell the mystery word at the bottom.
Hint: "I light the night with a spooky grin."
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Skill: Multistep Equations & Algebraic Proportions

Students will answer each task card. They can show their work on the recording sheet. Each task card has a letter on the card. Then they will record the letters as they complete each task card. Given the hint, students will unscramble the letters to reveal a secret word.

Includes:

- 12 questions
- Recording sheet
- Detailed answer key

station 3

Name: _____ Date: _____

STATION 3: HOW MANY SOLUTIONS DOES THE EQUATION HAVE?

Directions: Solve each equation below to determine the number of solutions it has. Use the answers to spell the name of a spooky Halloween creature.

1. $2(x+4) + 3x - 5 = 5x - 7$	2. $4(x-2) + 2 = 2(2x-3)$	3. $3(x+4) = 3(x-1) + x - 9$
No solution G	One Solution W	Infinitely Many Solutions S
4. $5(2x-1) = 10x - 5$	5. $6(x-2) + 3 = 2(3x-5) + 4$	6. $\frac{2}{3}(3x+6) = 2x+4$
No solution E	One Solution H	Infinitely Many Solutions L

What word do your answers spell?
Hint: "In spooky myths & tales, I guard

Name: _____ Date: _____

ANSWER KEY

STATION 3: HOW MANY SOLUTIONS DOES THE EQUATION HAVE?

Directions: Solve each equation below to determine the number of solutions it has. Use the answers to spell the name of a spooky Halloween creature.

1. $2(x+4) + 3x - 5 = 5x - 7$ $2x+8+3x-5=5x-7$ $5x+3=5x-7$ $-5x \quad -5x$ $3 \neq -7$	2. $4(x-2) + 2 = 2(2x-3)$ $4x-8+2=4x-6$ $4x-6=4x-6$ $-4x \quad -4x$ $-6=-6 \checkmark$	3. $3(x+4) = 3(x-1) + x - 9$ $3x+12=3x-3+x-9$ $3x+12=4x-12$ $-3x \quad -3x$ $12=x-12$ $+12 \quad +12$ $x=24$
No solution G	One Solution W	Infinitely Many Solutions S
4. $5(2x-1) = 10x - 5$ $10x-5=10x-5$ $-10x \quad -10x$ $-5=-5 \checkmark$	5. $6(x-2) + 3 = 2(3x-5) + 4$ $6x-12+3=6x-10+4$ $6x-9=6x-6$ $-6x \quad -6x$ $-9 \neq -6$	6. $\frac{2}{3}(3x+6) = 2x+4$ $2x+4=2x+4$ $-2x \quad -2x$ $4=4 \checkmark$
No solution E	One Solution H	Infinitely Many Solutions L
No solution I	One Solution T	Infinitely Many Solutions R
No solution E	One Solution S	Infinitely Many Solutions N

What word do your answers spell?
Hint: "In spooky myths & tales, I guard treasures or cause trouble."

G O B L I N

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Skill: Determining the Number of Solutions

Students will solve each equation to determine the number of solutions it has. They will circle the type of solution for each problem. Their answers will spell out a mystery word.

Includes:

- 6 questions
- Detailed answer key

Multistep Equations Review Stations

standards covered:

CCSS: 8.EE.C.7, 8.EE.C.7.a, HSA-REI.B.3

TEKs: 8.8c, A1.5.A

VA SOLs: PFA.8.17, EI.A.4.a

Name: _____ Date: _____

STATION 2: MULTISTEP EQUATIONS & ALGEBRAIC PROPORTIONS REVIEW

Directions: Use the space below to show your work to answer each task card. Once all the task cards are answered, you will unscramble the letters to spell the mystery word at the bottom.

<p>L $2(x+5) = 3x-4$ $2x+10 = 3x-4$ $-2x \quad -2x$ $10 = x-4$ $+4 \quad +4$ $x = 14$</p>	<p>N $4x+7 = 2(x+9)$ $4x+7 = 2x+18$ $-2x \quad -2x$ $2x+7 = 18$ $-7 \quad -7$ $2x = 11$ $\frac{x = \frac{11}{2}}$</p>	<p>C $\frac{x-2}{4} = \frac{x+6}{8}$ $8(x-2) = 4(x+6)$ $8x-16 = 4x+24$ $-4x \quad -4x$ $4x-16 = 24$ $+16 \quad +16$ $4x = 40$ $x = 10$</p>	<p>A $7x-2 = 4x+9$ $-4x \quad -4x$ $3x-2 = 9$ $+2 \quad +2$ $3x = 11$ $\frac{x = \frac{11}{3}}$</p>
<p>T $-3(x+2) - 4 = 2x+5$ $-3x-6-4 = 2x+5$ $-3x-10 = 2x+5$ $+3x \quad +3x$ $-10 = 5x+5$ $-5 \quad -5$ $-15 = 5x$ $\frac{x = -3}$</p>	<p>K $3(4x-1)+5 = 10+2x$ $-12x-3+5 = 10+2x$ $-12x+2 = 10+2x$ $+12x \quad +12x$ $2 = 10+14x$ $-10 \quad -10$ $-8 = 14x$ $\frac{x = -\frac{4}{7}}$</p>	<p>O $\frac{2x+3}{5} = \frac{x-1}{3}$ $3(2x+3) = 5(x-1)$ $6x+9 = 5x-5$ $-5x \quad -5x$ $x+9 = -5$ $-9 \quad -9$ $x = -14$</p>	<p>J $5x+9 = 2x+18$ $-2x \quad -2x$ $3x+9 = 18$ $-9 \quad -9$ $3x = 9$ $\frac{x = 3}$</p>
<p>R $\frac{2x+1}{3} = \frac{x}{2}$ $2(2x+1) = 3x$ $4x+2 = 3x$ $-3x \quad -3x$ $x+2 = 0$ $-2 \quad -2$ $x = -2$</p>	<p>A $6(x+2) - 4 = 2x+20$ $6x+12-4 = 2x+20$ $6x+8 = 2x+20$ $-2x \quad -2x$ $4x+8 = 20$ $-8 \quad -8$ $4x = 12$ $\frac{x = 3}$</p>	<p>E $-2+4x-3 = 2(x+7)$ $-5+4x = 2x+14$ $-2x \quad -2x$ $-5+2x = 14$ $+5 \quad +5$ $2x = 19$ $\frac{x = 19/2}$</p>	<p>N $\frac{6}{x-3} = \frac{9}{2x+1}$ $6(2x+1) = 9(x-3)$ $12x+6 = 9x-27$ $-9x \quad -9x$ $3x+6 = -27$ $-6 \quad -6$ $3x = -33$ $\frac{x = -11}$</p>

ght with a spooky grin."

K O L A N T E R N

N

$4x + 7 = 2(x + 9)$



L

$2(x + 5) = 3x - 4$



C

$\frac{x-2}{4} = \frac{x+6}{8}$



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how to use this resource

STATION 2: MULTISTEP EQUATIONS & ALGEBRAIC PROPORTIONS

Directions: Use the space below to show your work to answer each task card. Once all of the task cards are answered, you spell the mystery word at the bottom.

L $2(x+5) = 3x-4$
 $2x+10 = 3x-4$
 $-2x \quad -2x$
 $10 = x-4$
 $+4 \quad +4$
 $x=14$

N $4x+7 = 2(x+9)$
 $4x+7 = 2x+18$
 $-2x \quad -2x$
 $2x+7 = 18$
 $-7 \quad -7$
 $2x = 11$
 $x = \frac{11}{2}$

C $x-2 = \frac{x+6}{4}$
 $4(x-2) = 4(\frac{x+6}{4})$
 $4x-8 = x+6$
 $-4x \quad -4x$
 $-8 = x+6$
 $-14 = x$
 $x = -14$

T $-3(x+2) - 4 = 2x+5$
 $-3x-6-4 = 2x+5$
 $-3x-10 = 2x+5$
 $+3x \quad +3x$
 $-10 = 5x+5$
 $-5 \quad -5$
 $-15 = 5x$
 $x = -3$

R $\frac{2x+1}{3} = \frac{x}{2}$
 $2(2x+1) = 3x$
 $4x+2 = 3x$
 $-3x \quad -3x$
 $x+2 = 0$
 $-2 \quad -2$
 $x = -2$

Hint: "I light the night with a..."
J A

STATION 3: HOW MANY SOLUTIONS DOES THE EQUATION HAVE?

Directions: Solve each equation below to determine the number of solutions it has. Use the answers to spell the name of a spooky Halloween creature.

1. $2(x+4) + 3x - 5 = 5x - 7$
 $2x+8+3x-5 = 5x-7$
 $5x+3 = 5x-7$
 $-5x \quad -5x$
 $3 = -7$
No solution **G**

2. $4(x-2) + 2 = 2(2x-3)$
 $4x-8+2 = 4x-6$
 $4x-6 = 4x-6$
 $-4x \quad -4x$
 $-6 = -6$
One Solution **A**

3. $3(x+4) = 3(x-1) + x - 9$
 $3x+12 = 3x-3+x-9$
 $3x+12 = 4x-12$
 $-3x \quad -3x$
 $12 = x-12$
 $+12 \quad +12$
 $x = 24$
One Solution **B**

4. $5(2x-1) = 10x-5$
 $10x-5 = 10x-5$
 $-10x \quad -10x$
 $-5 = -5$
Infinitely Many Solutions **O**

5. $6(x-2) + 3 = 2(3x-5) + 4$
 $6x-12+3 = 6x-10+4$
 $6x-9 = 6x-6$
 $-6x \quad -6x$
 $-9 = -6$
No solution **C**

STATION 1: SOLVING MULTISTEP EQUATIONS WITH VARIABLES ON ONE AND BOTH SIDES

Directions: Solve each equation. Match the equations with their corresponding solution, answer will tell you where and how to color the grid to reveal a mystery image.

A) $3(x+4) - 2 = 16$
 $3x+12-2 = 16$
 $3x+10 = 16$
 $-10 \quad -10$
 $3x = 6$
 $x = 2$
orange

B) $\frac{1}{2}(x-6) + 4 = 7$
 $-4 \quad -4$
 $\frac{1}{2}(x-6) = 3$
 $\cdot 2 \quad \cdot 2$
 $x-6 = 6$
 $+6 \quad +6$
 $x = 12$
yellow

C) $12 = 5x + 3 - 2x$
 $12 = 3x + 3$
 $-3 \quad -3$
 $9 = 3x$
 $x = 3$
orange

D) $7(x-2) = 2x + 20$
 $7x-14 = 2x+20$
 $-2x \quad -2x$
 $5x-14 = 20$
 $+14 \quad +14$
 $5x = 34$
 $x = 6.8$
Black

E) $11 = 5 + \frac{3}{4}x$
 $-5 \quad -5$
 $6 = \frac{3}{4}x$
 $\cdot \frac{4}{3} \quad \cdot \frac{4}{3}$
 $8 = x$
purple

F) $4x - 7 = 2(x+3)$
 $4x-7 = 2x+6$
 $-2x \quad -2x$
 $2x-7 = 6$
 $+7 \quad +7$
 $2x = 13$
 $x = 6.5$
Black

Coloring Key:

-5 to -1	Blue
0 to 4	Orange
5 to 7	Black
8 to 11	Purple
12 to 15	Yellow
16 to 20	Red

This is a great activity to use when reviewing for an end of unit assessment on **solving multistep equations** with a Halloween twist.

These stations are also a **substitute-friendly** assignment!

You may also enjoy ...

SOLVING EQUATIONS NUMBER OF SOLUTIONS TASK CARDS

#6
how many solutions does the equation have?
 $2 - 15n = 5(-3n + 4)$

#10
how many solutions does the equation have?
 $3x - 4 = 2x + 8 - 5x$

Math with Ms. Rivera

ANSWER KEY INCLUDED

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SOLVING MULTISTEP EQUATIONS

Collaborative Tesselation

student work bulletin board

Math with Ms. Rivera

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SOLVING MULTISTEP EQUATIONS WITH VARIABLES ON BOTH SIDES

Digital & Print Activity Pack

12 Activities

SOLVING MULTI-STEP EQUATIONS

#1 $8x + 5 = 6x + 1$

#2 $x - 1 = -5$

#3 $10x + 18 = 8x + 4$

#4 $5h - 7 = 2(h + 1)$

#15 $3 + 4(y + 5) =$

#20 $6(2m + 10) = 5(m + 5)$

Math with Ms. Rivera

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Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

check it out!

The collage features several algebra worksheets. One prominent worksheet is titled "Rational Expression Operations - Addition & Subtraction" and includes a self-checking activity. The activity consists of a grid of questions and answers, with a path of colored lines (teal, yellow, purple) connecting the correct answers. The questions are:

- $\frac{5}{x} + \frac{3}{x+1}$
- $\frac{2}{x+4} - \frac{x^2}{x^2-16}$
- $\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$
- $\frac{x}{x-2} + \frac{3}{x-1}$
- $\frac{x}{4x+8} - \frac{1}{x^2+2x}$
- $\frac{x+2}{x-1} + \frac{x-1}{x+2}$
- $\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$
- $\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$

The answers are:

- $\frac{2x+1}{x+2}$
- $-\frac{1}{x^2-1}$
- $\frac{2x^2+2x+5}{x^2+x-2}$
- $-\frac{x^2+2x-8}{x^2-16}$
- $\frac{8x+5}{x^2+1}$
- $\frac{x^2-3x+7}{x^2-4}$
- $\frac{x^2+2x-6}{x^2-3x+2}$
- $\frac{x-2}{4x}$

The digital tablet also displays a matching activity with a table:

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$-\frac{x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

Other worksheets in the background include "Answer Key" for "Adding & Subtracting Rational Expressions", "Solving Systems of Equations", and "Multiplying & Dividing Rational Expressions".



hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

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