

keep scrolling to get
a sneak peek!

Help your Algebra 2 students practice **solving compound inequalities**. Students will be eager to get the self-checking benefits from this digital pixel art activity!

COMPOUND INEQUALITIES

Question	Answer	Directions: Answer each question correctly and pixels will appear to reveal a picture! To solve less than or equal to, use \leq . To write greater than or equal to, use \geq . Do not put space between numbers.
$-2 < 2x + 1 \leq 7$		
$-4 < 9 - x < 17$		
$x \leq \frac{1}{2}x - 3 < 4$		
$-1 < 2x + 3 \leq 7$		
4 or $2x + 4 > 12$		
$x + 6$ and $5x - 2 > 5x + 1$		
$\frac{1}{3}(x + 4) < 6$		
8 and $2x + 4 \leq 10$		
-6 or $3x + 1 > 10$		
$\frac{1}{4}(13x + 16) < \frac{5}{2}$		

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Self-Checking

Why do you need this?

Solving Compound Inequalities Pixel Art



It's self-checking! Your students will instantly know if they are correct or not.



Help your students practice this essential math skill.

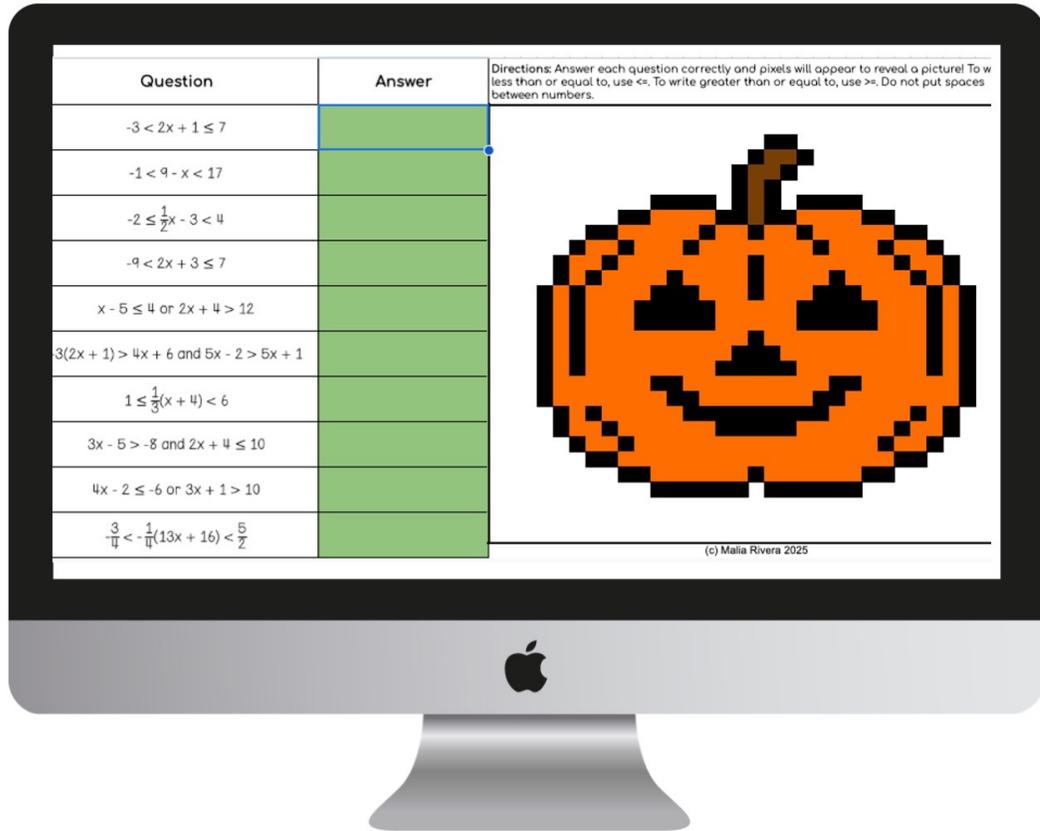


Your students will be so engaged trying to figure out what the picture is!

Question	Answer	Directions: Answer each question correctly and pixels will appear to reveal a picture! To write less than or equal to, use \leq . To write greater than or equal to, use \geq . Do not put spaces between numbers.
$-3 < 2x + 1 \leq 7$		
$-1 < 9 - x < 17$		
$-2 \leq \frac{1}{2}x - 3 < 4$		
$-9 < 2x + 3 \leq 7$		
$x - 5 \leq 4$ or $2x + 4 > 12$		
$3(2x + 1) > 4x + 6$ and $5x - 2 > 5x + 1$		
$1 \leq \frac{1}{3}(x + 4) < 6$		
$3x - 5 > -8$ and $2x + 4 \leq 10$		
$4x - 2 \leq -6$ or $3x + 1 > 10$		
$-\frac{3}{4} < -\frac{1}{4}(13x + 16) < \frac{5}{2}$		

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Compound Inequalities Pixel Art includes:



- ✓ 10 self-checking problems
- ✓ an answer key
- ✓ a self-checking version
- ✓ an assessment version
- ✓ student recording sheet

Compound Inequalities Pixel Art

standards covered:

CCSS: HSA-CED.A.1, HSA-REI.B.3

TEKs: A1.5.B, A1.12.E

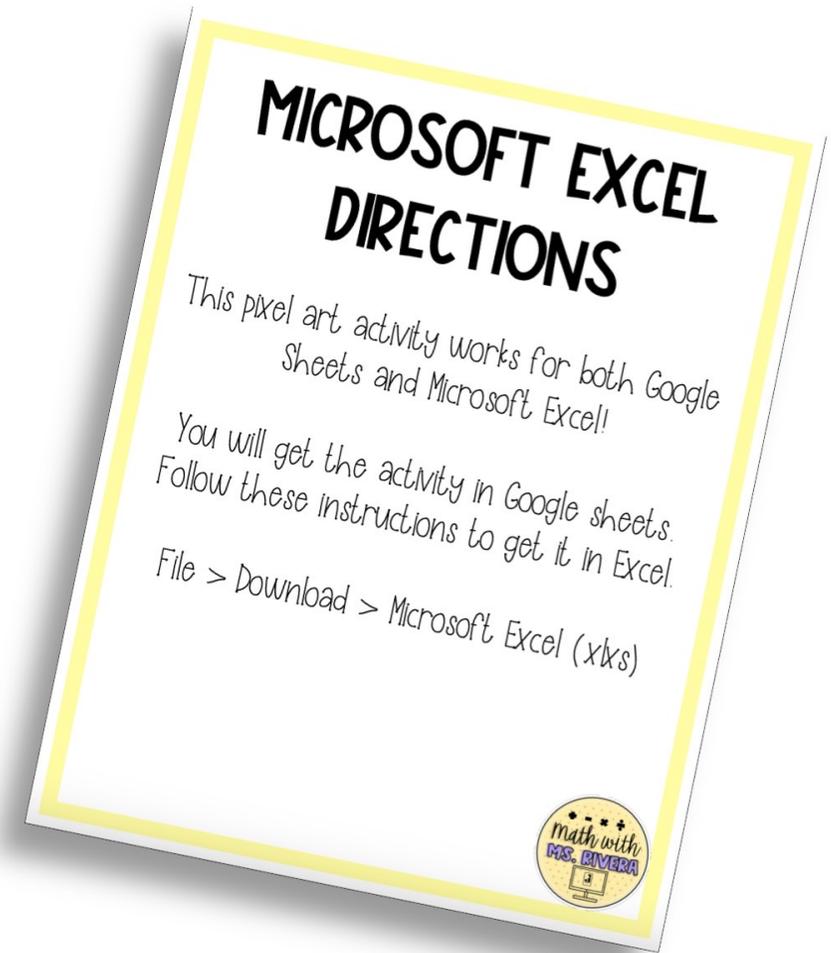
VA SOLs: EI.A.5a

Question	Answer	Directions: Answer each question correctly and pixels will appear to reveal a picture! If less than or equal to, use <=. To write greater than or equal to, use >=. Do not put space between numbers.
$-3 < 2x + 1 \leq 7$		
$-1 < 9 - x < 17$		
$-2 \leq \frac{1}{2}x - 3 < 4$		
$-9 < 2x + 3 \leq 7$		
$x - 5 \leq 4$ or $2x + 4 > 12$		
$2x + 1 > 4x + 6$ and $5x - 2 > 5x + 1$		
$1 \leq \frac{1}{3}(x + 4) < 6$		
$3x - 5 > -8$ and $2x + 4 \leq 10$		
$4x - 2 \leq -6$ or $3x + 1 > 10$		
$-\frac{3}{4} < -\frac{1}{4}(13x + 16) < \frac{5}{2}$		

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Compound Inequalities Pixel Art

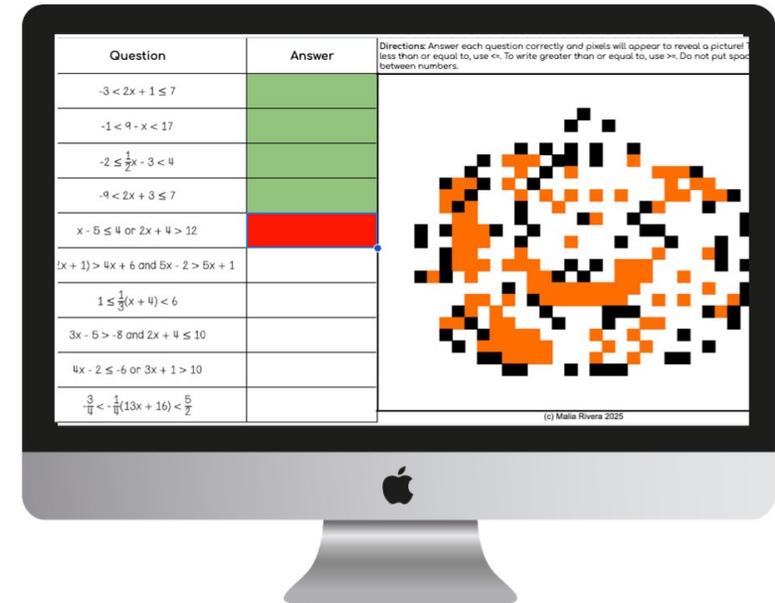
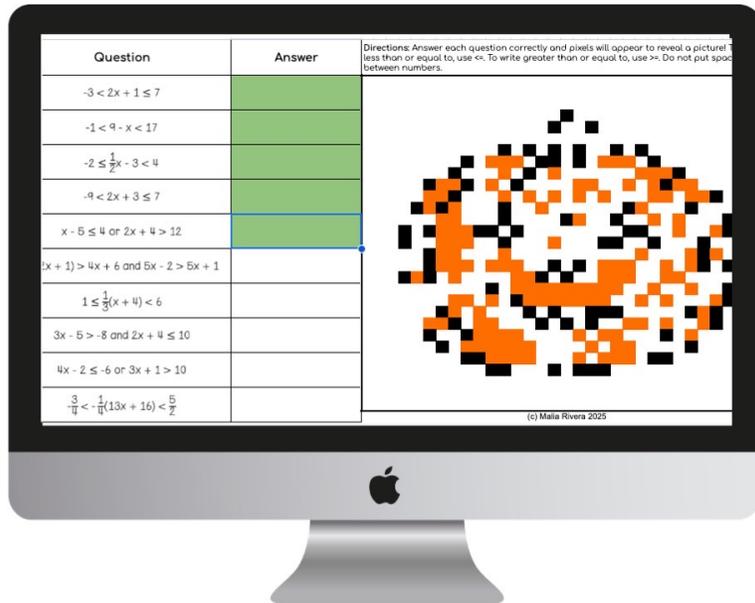
Can be used with Google Sheets
and Microsoft Excel
Directions included!



Compound Inequalities Pixel Art

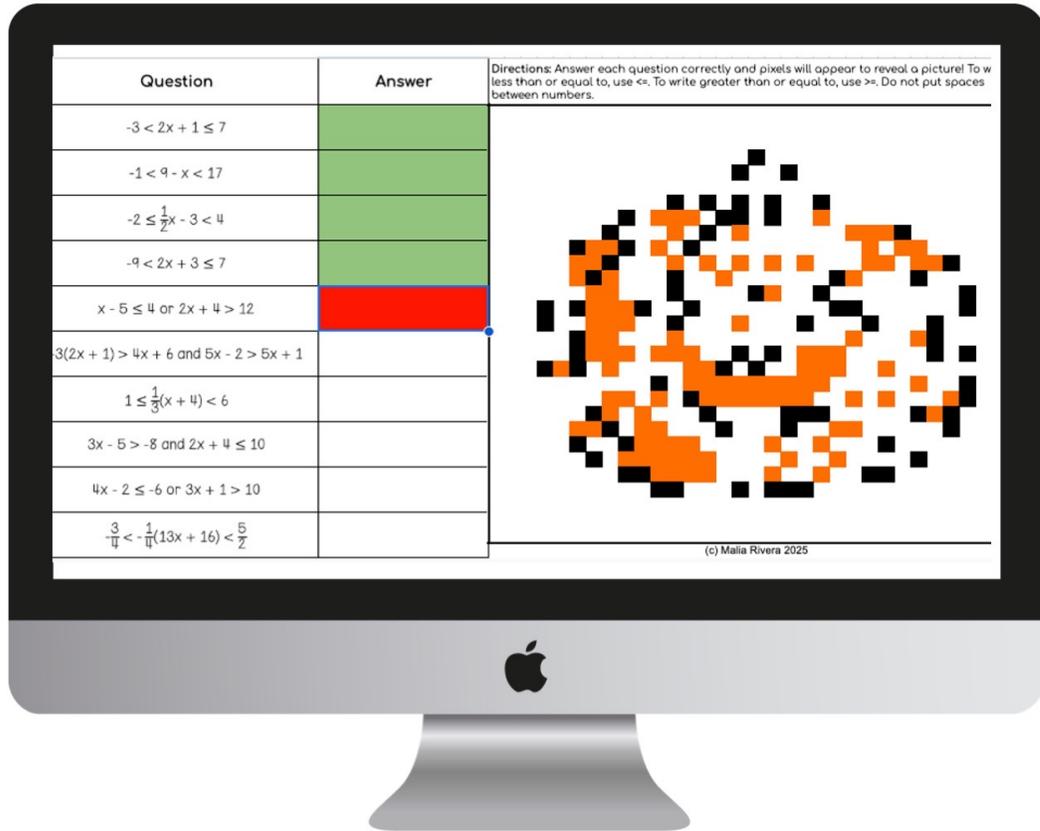
If they answer it correctly, some of the pixels will appear.

If they answer it incorrectly, the answer box will turn red & no pixels appear.



Your students will *love* trying to figure out what the picture is **WHILE** doing math!

how to use this resource



This is a great activity to use when reviewing how to solve different types of compound inequalities.

It can be used right after teaching the concept or as homework.

This is also a **substitute-friendly** assignment!

You may also enjoy ...

SOLVING MULTISTEP & COMPOUND INEQUALITIES

Algebra 2 Guided Notes

The thumbnail shows a worksheet titled "SOLVING INEQUALITIES" with a table of inequality symbols and their corresponding number line graphs. Below that, it has a section for "COMPOUND INEQUALITIES" with instructions on how to graph them. At the bottom, there's a section for "SOLVING COMPOUND INEQUALITIES" with a list of problems. A circular logo for "Math with Ms. Rivera" is in the bottom left corner.

Answer key included

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SOLVING COMPOUND INEQUALITIES

Differentiated Circuit Worksheet

The thumbnail shows a "SOLVING COMPOUND INEQUALITIES CIRCUIT" worksheet. It includes a "Date:" field, an "Answer Key" section, and a series of problems numbered 1 through 4. Each problem involves solving a compound inequality and graphing the solution on a number line. A path of numbers (1, 7, 4, 9, 2, 6, 10, 3) is marked on the page. A circular logo for "Math with Ms. Rivera" is in the bottom left corner.

2 versions + Answer key included

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SOLVING COMPOUND INEQUALITIES

Printable Maze

The thumbnail shows a "Solving Compound Inequalities Maze" worksheet. It includes a "Name:" field, a "Period:" field, and a maze of boxes. Each box contains a compound inequality to solve. The maze starts at a "START HERE!" box and ends at another "START HERE!" box. A circular logo for "Math with Ms. Rivera" is in the bottom left corner.

Answer key included

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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 image shows a collage of algebra worksheets and a digital tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS** and **SOLVING SYSTEMS OF EQUATIONS**.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** worksheet with problems like $\frac{x-2}{x^2+2x+1}$.
- SOLVING SYSTEMS OF EQUATIONS** worksheet with problems like $2. 2x - 6y = -18$ and $x = 3y - 4$.

The digital tablet displays a self-checking activity titled **Rational Expression Operations - Addition & Subtraction**. The directions are: "Answer each question and type the question number with the matching answer in the answer column to the right." The activity consists of a table with 8 questions and 8 answers, with a path of colored lines connecting the questions to their correct answers.

#	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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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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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