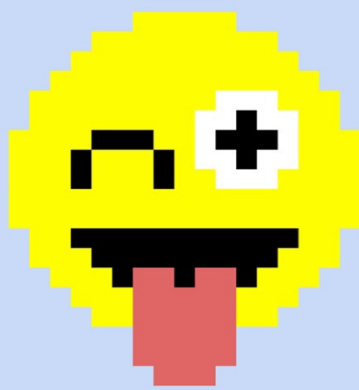


keep scrolling to get
a sneak peek!

Give your Algebra students a challenge to **find the missing coordinate**. Students use their knowledge of the slope formula to solve for the missing value.

Students will be eager to get the self-checking benefits from this digital pixel art activity!

FINDING THE MISSING COORDINATE FROM SLOPE

#	Question	Answer	Directions: Use the slope formula to find the missing coordinate. Answer each question correctly and pixels will appear to reveal a picture!
1	$(7, 16) \text{ \& } (x, -12), m = -28$		 <p>(c) Malia Rivera 2020</p>
2	$(4, x) \text{ \& } (-8, -10), m = -\frac{1}{6}$		
3	$(x, -7) \text{ \& } (-20, -17), m = \frac{5}{3}$		
4	$(0, 6) \text{ \& } (15, x), m = 0$		
5	$(-11, -16) \text{ \& } (x, -20), m = -\frac{1}{7}$		
6	$(2, x) \text{ \& } (9, 5), m = \frac{12}{7}$		
7	$(x, 4) \text{ \& } (17, -3), m = -\frac{7}{8}$		
8	$(-3, 1) \text{ \& } (x, 6), m = -5$		
9	$(-8, -3) \text{ \& } (-6, x), m = -2$		
10	$(5, x) \text{ \& } (3, -5), m = 6$		

Math
with Ms. Rivera

Self-Checking

Why do you need this?



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!

Find the Missing Slope Coordinate Pixel Art

#	Question	Answer
1	$(7, 16) \text{ \& } (x, -12), m = -28$	
2	$(4, x) \text{ \& } (-8, -10), m = -\frac{1}{6}$	
3	$(x, -7) \text{ \& } (-20, -17), m = \frac{5}{3}$	
4	$(0, 6) \text{ \& } (15, x), m = 0$	
5	$(-11, -16) \text{ \& } (x, -20), m = -\frac{1}{7}$	
6	$(2, x) \text{ \& } (9, 5), m = \frac{12}{7}$	
7	$(x, 4) \text{ \& } (17, -3), m = -\frac{7}{8}$	
8	$(-3, 1) \text{ \& } (x, 6), m = -5$	
9	$(-8, -3) \text{ \& } (-6, x), m = -2$	
10	$(5, x) \text{ \& } (3, -5), m = 6$	


Directions: Use the slope formula to find the missing coordinate. Answer each question correctly and pixels will appear to reveal a picture!

(c) Malia Rivera 2020

Finding the Missing Coordinate Pixel Art includes:

#	Question	Answer
1	$(7, 16) \text{ \& } (x, -12), m = -28$	
2	$(4, x) \text{ \& } (-8, -10), m = -\frac{1}{6}$	
3	$(x, -7) \text{ \& } (-20, -17), m = \frac{5}{3}$	
4	$(0, 6) \text{ \& } (15, x), m = 0$	
5	$(-11, -16) \text{ \& } (x, -20), m = -\frac{1}{7}$	
6	$(2, x) \text{ \& } (9, 5), m = \frac{12}{7}$	
7	$(x, 4) \text{ \& } (17, -3), m = -\frac{7}{8}$	
8	$(-3, 1) \text{ \& } (x, 6), m = -5$	
9	$(-8, -3) \text{ \& } (-6, x), m = -2$	
10	$(5, x) \text{ \& } (3, -5), m = 6$	

Directions: Use the slope formula to find the missing coordinate. Answer each question correctly and pixels will appear to reveal a picture!



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

Finding the Missing Coordinate Pixel Art

standards covered:

CCSS: 8.F.B.4

TEKs: A1.3.A

VA SOLs: E1.A.6.a

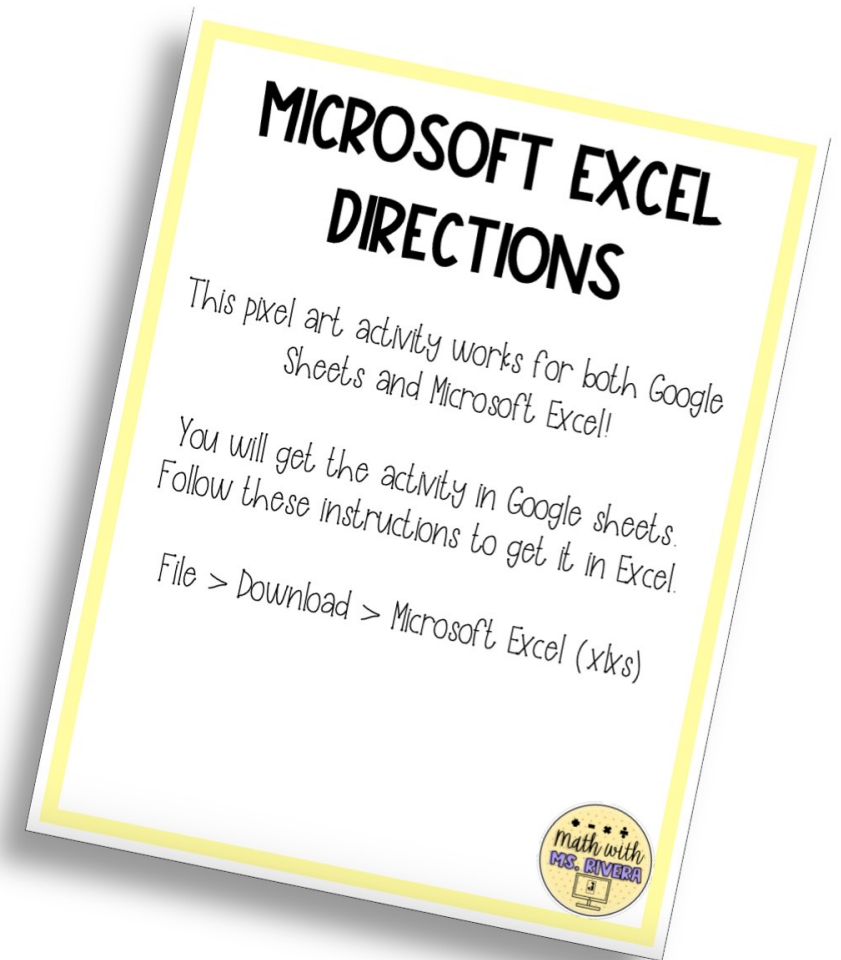
Directions: Use the slope formula to find the missing coordinate. Answer each question correctly and pixels will appear to reveal a picture!

#	Question	Answer
1	$(7, 16) \text{ \& } (x, -12), m = -28$	
2	$(4, x) \text{ \& } (-8, -10), m = -\frac{1}{6}$	
3	$(x, -7) \text{ \& } (-20, -17), m = \frac{5}{3}$	
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10	$(5, x) \text{ \& } (3, -5), m = 6$	

(c) Malia Rivera 2020

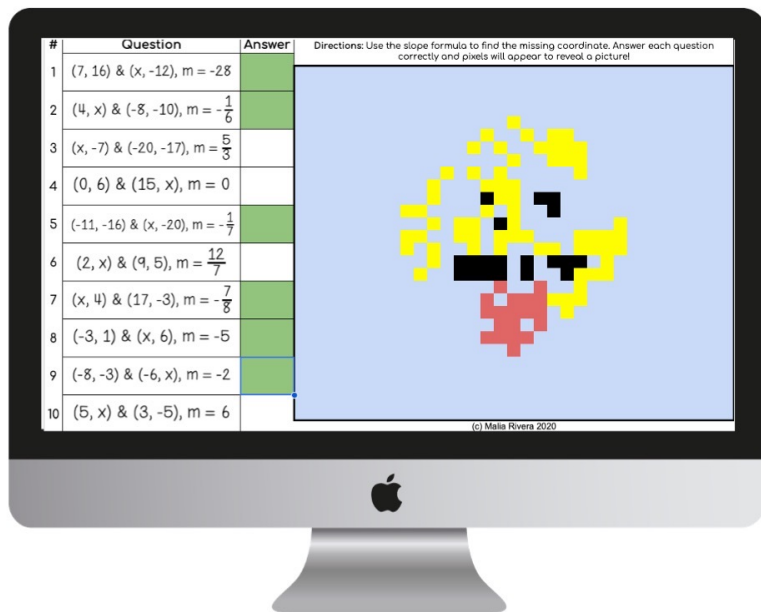
Finding the Missing Coordinate Pixel Art

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

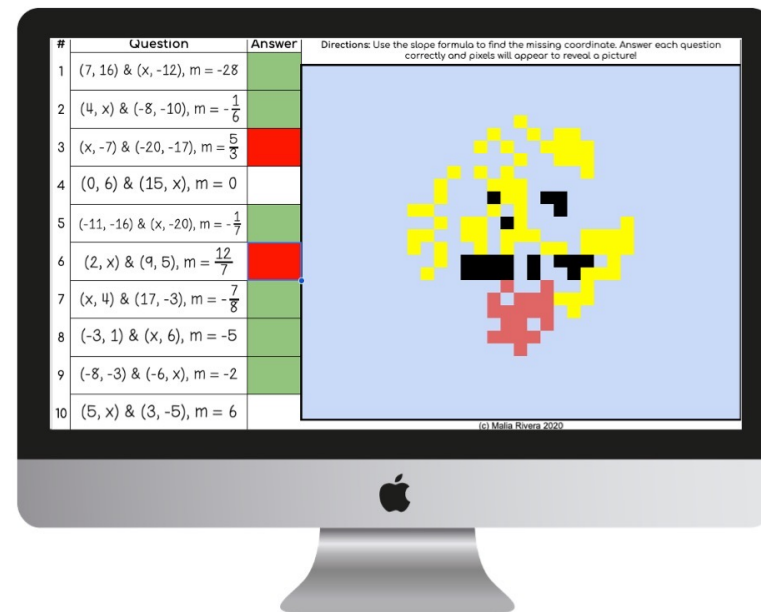


How pixel art works

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

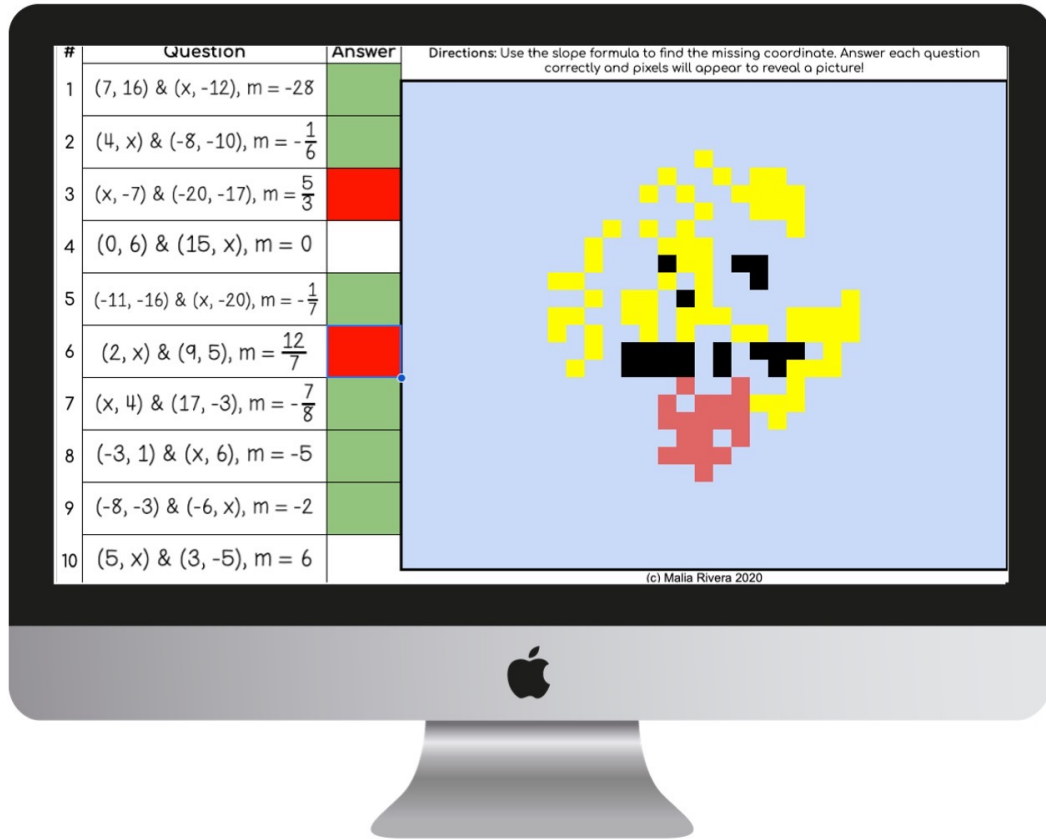


If they answer it incorrectly, the answer box will turn red & no pixels appear.



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

how to use this resource



The monitor displays a worksheet with a table of 10 math problems. The table has three columns: '#', 'Question', and 'Answer'. The 'Answer' column contains colored boxes: green for correct answers and red for incorrect answers. To the right of the table is a large blue area containing a pixel art image of a smiley face. The smiley face is composed of yellow, black, and red pixels. The red pixels form the mouth, which is currently a downward-pointing shape, indicating that the corresponding problem has not been solved correctly.

#	Question	Answer
1	$(7, 16) \text{ \& } (x, -12), m = -28$	Green
2	$(4, x) \text{ \& } (-8, -10), m = -\frac{1}{6}$	Green
3	$(x, -7) \text{ \& } (-20, -17), m = \frac{5}{3}$	Red
4	$(0, 6) \text{ \& } (15, x), m = 0$	White
5	$(-11, -16) \text{ \& } (x, -20), m = -\frac{1}{7}$	Green
6	$(2, x) \text{ \& } (9, 5), m = \frac{12}{7}$	Red
7	$(x, 4) \text{ \& } (17, -3), m = -\frac{7}{8}$	Green
8	$(-3, 1) \text{ \& } (x, 6), m = -5$	Green
9	$(-8, -3) \text{ \& } (-6, x), m = -2$	Green
10	$(5, x) \text{ \& } (3, -5), m = 6$	White

Directions: Use the slope formula to find the missing coordinate. Answer each question correctly and pixels will appear to reveal a picture!

(c) Malia Rivera 2020

This is a great activity to use to challenge students to use their knowledge of slope to find the missing coordinate.

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

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

You may also enjoy...

FINDING SLOPE FROM 2 POINTS

12 Task cards

Handwritten task cards for finding slope from two points. The cards include problems like: #1 Calculate the slope between the two points (5, 2) & (4, -2); #7 Calculate the slope between the two points (5, 4) & (-5, -2); #4 Calculate the slope between the two points (-10, -2) & (-8, 8). The cards show the slope formula $m = \frac{y_2 - y_1}{x_2 - x_1}$ and the resulting slope values.

Answers printed on the back!

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FINDING SLOPE FROM TABLES

Digital activity pack for finding slope from tables. The screen shows a grid of tables with x and y values. The title is "Calculating Slope from Tables". Directions: Look at each table and identify the slope. Type your slope in the answer box. If you are correct, the box will turn green. If you are incorrect, the box will turn red. If you get an undefined slope, type "und".

X	Y
1	5
2	10
3	15
4	20

X	Y
2	6
4	12
6	18
8	24

X	Y
0	-1
3	-2
6	-3
9	-4

X	Y
-1	-15
0	-9
1	0
2	9

X	Y
-5	-1
0	-1
5	-1
10	-1

X	Y
-9	-1
-7	4
-5	9
-3	14

X	Y
3	6
5	10
7	14
9	18

X	Y
2	-2
2	-3
2	-4
2	-5

X	Y
-5	10
-3	6
-1	2
1	-2

X	Y
9	2
3	-2
-3	-6
-9	-10

Self-Checking



FINDING SLOPE

Digital & Print Activity Pack

10 Activities

Digital activity pack for finding slope from graphs. The screen shows a grid of graphs with lines plotted. The title is "Identifying Slope from Tables". Directions: Identify each slope from the given table. Write your answer in the space provided. Another section is titled "Identifying Slope from Graphs" with directions: Look at each graph and identify the slope. Type your slope in the answer box. If you are correct, the box will turn green. If you are incorrect, the box will turn red. If your answer is undefined type "und".



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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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