

keep scrolling to get
a sneak peek!

Help your Algebra 1 students
practice **finding x & y-
intercepts from equations.**

Your students will benefit
from being given a fun
Thanksgiving themed activity
to practice math while they
have break on their brain!

FINDING X & Y-INTERCEPTS

Thanksgiving Maze Worksheet

Name: _____ Date: _____

FINDING X & Y-INTERCEPTS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

Name: **ANSWER KEY**

FINDING X & Y-INTERCEPTS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

Equations in boxes: $y = 1/2x - 3$, $2x + y = 5$, $y = 2x + 4$, $y = 1/2x - 3$, $4x + 2y = 12$

Coordinate pairs on paths: $(-6, 0) \& (0, 3)$, $(-2, 0) \& (0, 4)$, $(6, 0) \& (0, -3)$, $(5/2, 0) \& (0, 5)$, $(-8, 0) \& (0, -4)$, $(2, 0) \& (0, 4)$, $(6, 0) \& (0, -3)$, $(2, 0) \& (0, 5)$, $(-2, 0) \& (0, 4)$, $(2, 0) \& (0, 4)$, $(6, 0) \& (0, -3)$, $(5/2, 0) \& (0, 5)$, $(-2, 0) \& (0, 4)$, $(2, 0) \& (0, 4)$



Recording Sheet & Detailed Answer Key

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Why do you need this?



Providing feedback with self-checking activities will engage students to keep practicing!



Incorporate a Thanksgiving themed activity with your students WHILE mastering key Algebraic skills!

Finding X & Y-Intercepts Thanksgiving Maze

FINDING X & Y-INTERCEPTS MAZE
Name: _____ Date: _____
Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

ANSWER KEY
Name: _____ Date: _____
Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

The mazes consist of interconnected boxes containing linear equations and their x and y intercepts. The equations include $y = 2x + 4$, $y = 1/2x - 3$, $4x + 2y = 12$, $y = -3x + 6$, $5x - y = 5$, and $y = -4x$. The intercepts are given as coordinate pairs such as $(-6, 0)$ and $(0, 3)$. The answer key maze shows a red path starting from the $y = 2x + 4$ box and following the correct intercepts through the maze.

Finding X & Y-Intercepts Thanksgiving Maze

skills used:

Given an equation in slope intercept form or standard form, find the x and y-intercepts.

standards covered:

CCSS: HSF-IF.B.4

TEKs: A1.7.A

VA SOLs: F.A.7.d

Name: _____ Date: _____

FINDING X & Y-INTERCEPTS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

The maze consists of several boxes, each containing a linear equation and a pair of intercepts. The paths are labeled with these intercept pairs:

- Start:** $y = 2x + 4$ (Intercepts: $(-6, 0)$ & $(0, 3)$)
- Box 1:** $y = \frac{1}{2}x - 3$ (Intercepts: $(6, 0)$ & $(0, -3)$)
- Box 2:** $2x + y = 5$ (Intercepts: $(\frac{5}{2}, 0)$ & $(0, 5)$)
- Box 3:** $4x + 2y = 12$ (Intercepts: $(3, 0)$ & $(0, 6)$)
- Box 4:** $y = -3x + 6$ (Intercepts: $(2, 0)$ & $(0, 2)$)
- Box 5:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 6:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 7:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 8:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 9:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 10:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 11:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 12:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 13:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 14:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 15:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 16:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 17:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 18:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 19:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 20:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 21:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
- Box 22:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)
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- Box 100:** $4x + 2y = 12$ (Intercepts: $(2, 0)$ & $(0, 6)$)

how to use this resource

This is a great individual practice activity to use when reviewing how to find the x and y-intercepts from a linear equation.

My favorite ways to use this maze worksheet is as a review station in November.

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

Name: **ANSWER KEY** _____ Date: _____

FINDING X & Y-INTERCEPTS MAZE RECORDING SHEET

1. $y = 2x + 4$ $0 = 2x + 4$ $-4 \quad -4$ $\frac{-4 = 2x}{2}$ $-2 = x$ $(-2, 0)$	2. $y = -3x + 6$ $0 = -3x + 6$ $-6 \quad -6$ $\frac{-6 = -3x}{-3}$ $2 = x$
--	--

Name: _____ Date: _____

FINDING X & Y-INTERCEPTS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

3. $4x + 2y = 12$
 $4x + 2(0) = 12$
 $4x = 12$
 $\frac{4x = 12}{4}$
 $x = 3$
 $(3, 0)$

5. $y = 4x$
 $0 = 4x$
 $\frac{0 = 4x}{4}$
 $x = 0$
 $y = 0!$
 $(0, 0)$

You may also enjoy ...

X & Y-INTERCEPTS Choice Board

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CALCULATING X & Y INTERCEPTS

Calculating x & y-intercepts from Equations

Directions: Calculate the x & y-intercepts of each equation and find your answer in the answer bank. Type the corresponding letter in the answer column. If you are correct, it will turn green. If you are incorrect, it will turn red.

$y = x - 5$	$6x + 24y = -18$	Answer Bank					
$y = 1/2x - 2$	$-4x - 2y = 16$	A (5, 0)	P (-3/4, 0)	C (-6, 0)	D (2, 0)	E (-2, 0)	F (-4, 0)
$y = 4/3x + 8$	$10x - 5y = 5$	G (3, 0)	H (3/2, 0)	I (-4, 0)	J (-2, 0)	K (5, 0)	L (-1, 0)
$y = -5x + 5$	$-3y = 2x + 12$	M (2/3, 0)	N (4, 0)	O (-4, 0)	P (-3, 0)	Q (-2, 0)	R (-3, 0)
$2x + 3y = 6$	$4x = 3y + 6$	S (-5, 0)	T (1/2, 0)	U (4, 0)	V (1, 0)	W (5, 0)	X (-4, 0)
$-4x + 3y = 12$	$-2y + 6x = 4$	(0, 1)	(0, -3)	(0, 5)	(0, 3)	(0, 4)	(0, -4)

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Self-Checking

IDENTIFYING SLOPE & Y-INTERCEPTS

#	Equation	Slope	Y-int	Directions: Look at each equation and identify the slope & the y-intercept.
1	$y = 4x - 5$			
2	$y = 2/3x + 1$			
3	$y = -6/5x - 1$			
4	$y = 1/2x$			
5	$x + 3y = 12$			
6	$4x + 5y = -10$			
7	$3x - 2y = -2$			
8	$7x + y = -3$			
9	$x + 2y = 2$			
10	$4x - y = 0$			
11	$x + y = -2$			
12	$3x + 2y = -4$			

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Self-Checking

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check it out!

Rational Expression Operations - Addition & Subtraction

Directions: Answer each question and type the question number with the matching answer in the answer column to the right.

#	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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