

keep scrolling to  
get a sneak peek!

Help your Algebra students  
review linear function skills with  
these March Mathness review  
stations! Students will be eager  
to get the self-checking &  
student choice benefits from  
these activities!

# WRITING & GRAPHING LINEAR FUNCTIONS REVIEW

## MARCH MATH-NESS STATIONS

**STATION 2: DRIBBLE, DRIBBLE, SHOOT!**  
Directions: Start with any question you'd like. Once you answer the question, look for the correct answer on the answer side of the page, and then draw a line connecting the question to the corresponding answer.

1.  $(2, 3)$  &  $(5, 7)$

2.  $y = -3x + 8$

3. 

x	1	3	5
y	2	6	10

4.

5.  $(-4, -2)$  &  $(6, 3)$

6. 

x	-8	-2	4
y	14	4	-6

7. Write an equation in slope intercept form that passes through  $(-2, 4)$  and  $(0, 3)$

8. Write an equation in standard form that has a slope of  $-4$  and a y-intercept of  $-5$

**STATION 3: FULL COURT GRAPH**  
Directions: Graph each linear function. Record the letter of the basketball that the passes through.

1.  $y = 2x - 4$

2.  $y = -3/4x + 5$

4.  $2x - 3y = 12$

Normal 2 Point

Math  
with Ms. Rivera

4 Stations activities + Answer keys

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Why do you need this?

# Linear Function Review Stations



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!

**STATION 1: SOLVE FOR THE WIN!**  
Directions: Show your work from each card in the space below. Make sure to mark which question number you are working on.

Question # 7 Number of Points: 1  
 $m = \frac{10-4}{10+2} = \frac{6}{12} = \frac{1}{2}$   
 $10 = \frac{1}{2}(10) + b$   
 $10 = 5 + b$   
 $-5 = -5 + b$   
 $5 = b$   
 $y = \frac{1}{2}x + 5$

Question # 8 Number of Points: 1  
 $y = -\frac{2}{3}x - 1$

Question # 1 Number of Points: 2  
 $y - 7 = 3(x - 3)$

Question # 2 Number of Points: 2  
 $y - 1 = -3(x + 2)$

Question # 3 Number of Points: 2  
 $m = \frac{-3-2}{4+1} = \frac{-5}{5} = -1$   
 $y + 3 = -(x - 4)$

Question # 4 Number of Points: 2  
 $m = \frac{-1+b}{8+2} = \frac{5}{10} = \frac{1}{2}$

**STATION 2: DRIZZLE, DRIZZLE, SHOOT!**  
Directions: Start with any question you'd like. Once you answer the question, look for the correct answer on the answer side of the page, and then draw a line connecting the question to the corresponding answer.

(2, 3) & (5, 7)  
 $y = -3x + 8$   
(-4, -2) & (6, 3)  
 $2x + 4y = 12$

4  
S  
C  
U  
N  
R  
-3  
-5/3  
-1/3  
4/3  
-1/2  
1/4

**STATION 3: FULL COURT GRAPH**  
Directions: Graph each given rational function. Record the letter of the box it passes through.

1.  $y = 2x - 4$   
2.  $y = -3/4x + 5$   
3.  $y + 1 = 3(x - 4)$   
4.  $2x - 4y = 8$

**STATION 4: MARCH MATHNESS**  
Directions: Show your work from each question in the space below.

7. Elite Eight Round  
 $y = -6x + 11$   
 $+6x + 6x$   
 $6x + y = 11$

9. Final Four  
 $2x - 3y = 12$   
 $-2x$   
 $-3y = -2x + 12$   
 $-3$   
 $y = \frac{2}{3}x - 4$

11. Final Four  
 $-5x + 2y = 10$   
 $+5x$   
 $+5x$

**STATION 5: FREE THROW - 1 point**  
Write an equation in slope intercept form with a slope of 3 and a y-intercept of 5.

# Linear Function March Mathness Review Stations *includes:*

**STATION 3: FULL COURT GRAPH**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_  
Directions: Graph each given function. Record the letter of the basketball that passes through.  
1.  $y = 2x - 4$   
2.  $y = -3/4x + 5$   
3.  $y + 1 = 3(x - 4)$   
Directions: Write down the letter to unscramble the word before me.  
Hint: **A**  
**N**

**5**  
Write an equation in slope intercept form given the graph.  
**Free Throw - 1 point**

**7**  
Write an equation in slope intercept form that passes through  $(-2, 4)$  and  $(10, 1)$ .  
**Free Throw - 1 point**

**STATION 4: MARCH MATHNESS MATCHUP**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_  
Directions: Convert into the given function. Check your answers before moving on to the next round. If your answer is incorrect, try again.  
Round Directions:  
- Elite Eight: Convert the function into standard form.  
- Final Four: Convert the function into slope-intercept form.  
- Championship: Convert the function into standard form.

$Y = 3x - 5$   
 $-3x + y = -5$

$Y = -1/2x + 4$   
 $x + 2y = 8$

$Y = 5x + 7$   
 $-5x + y = 7$

$Y = -4x - 9$   
 $4x + y = -9$

$Y = 2/3x - 8$   
 $-2x + 3y = -24$

$Y = 5/4x + 3$   
 $-5x + 4y = 12$

$Y = -6x + 11$   
 $6x + y = 11$

$Y = 7/2x - 5$   
 $-7x + 2y = -10$   
Elite Eight

$Y - 2 = 3(x + 1)$   
 $-3x + y = 5$

$4x + y = 7$   
 $y = -4x + 7$

$Y + 5 = -2(x - 4)$   
 $2x + y = 3$   
Championship

$X + 6y = -12$   
 $y = -1/6x - 2$   
Final Four

- ✓ 4 printable station activities
- ✓ answer keys
- ✓ teacher & student directions
- ✓ color & printer-friendly versions

# station 1 - Solving for the Win!

## Skill: Writing Linear Equations (all 3 forms - from two points, a graph, point & slope, and slope & y-intercept)

Students are required to answer 2 questions from each of the 3 shot types. Then they can choose whatever other questions they want to answer to get at least 24 points.

### Includes:

- 24 total task cards, 8 questions per shot type (*free throw, normal basket, 3-pointer*)
- Recording sheets
- Detailed answer key



# station 2 - Dribble Dribble Shoot!

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## STATION 2: DRIBBLE, DRIBBLE, SHOOT!

Directions: Show your work from each question in the space

1.  $m = \frac{7-3}{5-2} = \frac{4}{3}$   
 $m = \frac{4}{3}$  I

3. change in  $y = 4$   
change in  $x = 2$   
 $m = \frac{4}{2} = 2$   
 $m = 2$  N

5.  $m = \frac{3+2}{0+4} = \frac{5}{4} = \frac{1}{2}$   
 $m = \frac{1}{2}$  M

2. \_\_\_\_\_

4. \_\_\_\_\_

6. \_\_\_\_\_

7.  $2x + 4y = 12$   
 $-2x \quad -2x$   
 $4y = -2x + 12$   
 $4$   
 $y = -\frac{1}{2}x + 3$   
 $m = -\frac{1}{2}$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## STATION 2: DRIBBLE, DRIBBLE, SHOOT!

Directions: Start with any question you'd like. Once you answer the question, look for the correct answer on the answer side of the page, and then draw a line connecting the question to the corresponding answer.

1. (2, 3) & (5, 7) S 4 O -3

2.  $y = -3x + 8$  C -5/3 P -1/3

3. 

x	1	3	5
y	2	6	10

 U 3 I 4/3

4. N 2 H -1/2

5. (-4, -2) & (6, 3) R 3/5 A 1/4

6. 

x	-8	-2	4
y	14	4	-6

 M 1/2 T -2

7.  $2x + 4y = 12$

8.

Directions: Write down the letter from each correct answer in the space below. Use the hint to unscramble the word before moving on to the next station.

Hint: Winners of the March Madness tournament.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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## Skill: Identifying Slope (from two points, equations, tables, & graphs)

Students will answer the basketball question and match it to the correct answer hoop. Then they will record the letters under the hoop in the box at the bottom. Given the hint, students will unscramble the letters to reveal a secret word.

### Includes:

- 8 questions
- Recording sheet
- Detailed answer key

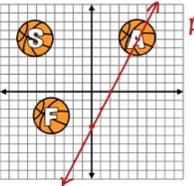
# station 3 - Full Court Graph!

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## STATION 3: FULL COURT GRAPH

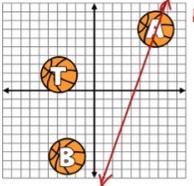
Directions: Graph each given function. Record the letter of the basketball that the line passes through.

1.  $y = 2x - 4$



2. \_\_\_\_\_

3.  $y + 1 = 3(x - 4)$



Directions: Write down the letter from each correct answer in the space below. Use the hint to unscramble the word before moving on to the next station.

\_\_\_\_\_ A C

Hint: \_\_\_\_\_ N \_\_\_\_\_

Hint: The abbreviated name for the college basketball league.

\_\_\_\_\_

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## Skill: Graphing Linear Functions

Given the linear function, students will graph it on the coordinate plane. Their graph will go through one of the letter basketballs. If it goes through a letter, they will record it. At the end, using the hint, students will unscramble the letters to reveal a mystery word.

### Includes:

- 4 questions
- Detailed answer key

# station 4 - March Mathness Matchup

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## STATION 4: MARCH MATHNESS MATCHUP

Directions: Show your work from each question in the space below.

1. Elite Eight Round

2. Elite Eight Round

3. Elite Eight Round

5. Elite Eight Round

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**STATION 4: MARCH MATHNESS MATCHUP**

Directions: Convert into the given function. Check your answers before moving on to the next round. If your answer is incorrect, try again.

Elite Eight Round:  
Find a partner to answer the function questions. Convert the function into the desired form.

Round Directions:  
Elite Eight Round:  
Find a partner to answer the function questions. Convert the function into the desired form.

Championship Round:  
Find a partner to answer the function questions. Convert the function into the desired form.

Final Four  
Elite Eight

Championship

Elite Eight Round:  
 $y = 3x - 5$   
 $-3x + y = -5$

Elite Eight Round:  
 $y = -1/2x + 4$   
 $x + 2y = 8$

Elite Eight Round:  
 $y = 5x + 7$   
 $-5x + y = 7$

Elite Eight Round:  
 $y = -4x - 9$   
 $4x + y = -9$

Elite Eight Round:  
 $y = 2/3x - 8$   
 $-2x + 3y = -24$

Elite Eight Round:  
 $y = 5/4x + 3$   
 $-5x + 4y = 12$

Elite Eight Round:  
 $y = -6x + 11$   
 $6x + y = 11$

Elite Eight Round:  
 $y = 7/2x - 5$   
 $-7x + 2y = -10$

Elite Eight Round:  
 $2x - 3y = 12$   
 $y = 2/3x - 4$

Elite Eight Round:  
 $y - 2 = 3(x + 1)$   
 $-3x + y = 5$

Elite Eight Round:  
 $4x + y = 7$   
 $y = -4x + 7$

Elite Eight Round:  
 $-5x + 2y = 10$   
 $y = 5/2x + 5$

Elite Eight Round:  
 $y + 5 = -2(x - 4)$   
 $2x + y = 3$

Elite Eight Round:  
 $x + 6y = -12$   
 $y = -1/6x - 2$

## Skill: Re-writing Linear Functions

Given the linear functions, students will re-write it into a different linear form. An answer key is included so they can check their answers before moving on to the next round.

### Includes:

- 14 questions
- Recording sheet
- Detailed answer key

# Linear Functions Review Stations

standards covered:

**CCSS:** 8.F.B.4, 8.EE.B.6, HSA-CED.A.2

**TEKs:** 8.4.C, A1.2.BG, A1.3.A, A1.3.C

**VA SOLs:** PFA.8.16b, EI.A.6.ab

**STATION 4: MARCH MATHNESS MATCH UP**

Directions:  
In this station, you will answer problems in each round of the bracket. If you get the answer incorrect, you must go back and try again. Once you get all the questions correct in that round, you can move on to the next round.

Instructions:

- Start by answering the questions in the Elite Eight round. Make sure to show your work.
- Check each answer before moving on to the next round. If there are incorrect answers, go back and try again.
- Once every question in the round is complete & correct, you can move on to the next round.

**7** Write an equation in slope intercept form that passes through  $(-2, 4)$  and  $(10, 7)$ .  
**Free Throw** 1 Point

**6** Write an equation in point slope form given the graph.  
**Normal Basket** 2 Points

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# how to use this resource

The image shows three overlapping worksheets from a linear functions resource.   
1. **Station 2: DRIBBLE, DRIBBLE, SHOOT!**: Features a basketball court diagram with points labeled with coordinates and equations. A grid shows a line passing through (1, 3) and (3, 5).   
2. **Station 1: SOLVE FOR THE WIN!**: Contains handwritten solutions for two questions. Question 7 shows solving for m in a line equation, resulting in  $m = \frac{1}{2}$  and the equation  $y = \frac{1}{2}x + 5$ . Question 8 shows solving for b in a line equation, resulting in  $b = -1$  and the equation  $y = -\frac{2}{3}x - 1$ .   
3. **Station 4: MARCH MATHESS MATCHUP**: A tournament bracket for matching equations. The equations are:  $y = 3x - 5$ ,  $-3x + y = -5$ ,  $2x - 3y = 12$ ,  $y = -1/2x + 4$ ,  $x + 2y = 8$ ,  $y = 2/3x - 4$ ,  $2x - 3y = 12$ ,  $y = 5x + 7$ ,  $-5x + y = 7$ ,  $4x + y = 7$ ,  $y = -4x - 9$ ,  $4x + y = -9$ ,  $y = 2/3x - 8$ ,  $-2x + 3y = -24$ ,  $-5x + 2y = 10$ ,  $y = 5/4x + 3$ ,  $-5x + 4y = 12$ ,  $y = 5/2x + 5$ ,  $y = -6x + 11$ ,  $6x + y = 11$ ,  $y + 5 = -2(x - 4)$ ,  $2x + y = 3$ ,  $x + 6y = -12$ ,  $2x + y = 3$ ,  $y = 7/2x - 5$ ,  $-7x + 2y = -10$ ,  $y = -1/6x - 2$ . The tournament progresses through rounds: Elite Eight, Final Four, Championship, and a final match.

This is a great activity to use when reviewing for an end of unit assessment on **writing & graphing linear functions** or as an end of year review.

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

You may also enjoy ...

## LINEAR FUNCTION GRAPH CHARACTERISTICS

Identifying Graph Characteristics

Identify the different characteristics of the graph and type them in the table.

Zero of the Function	-2
X - Intercept	(-2, 0)
Y - Intercept	(0, 4)
f(-3) = ?	-2
What is x when f(x) = 2	Type here

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## WRITING IN SLOPE INTERCEPT FORM

Digital & Print Activity Pack

10 Activities

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## CHOICE BOARDS BUNDLE

Graphing Linear Functions

Algebra I

Standard Form

Slope-Intercept Form

Point-Slope Form

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check it out!

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**ADDING & SUBTRACTING RATIONAL EXPRESSIONS**  
Directions: Simplify the rational expressions. Show your work.

**Solving Systems of Equations**  
Date: \_\_\_\_\_  
Solve systems of equations using substitution or elimination. Check your solution.  
 $2x - 6y = -18$   
 $x = 3y - 9$   
 $2(3y - 9) - 6y = -18$   
 $6y - 18 - 6y = -18$   
 $-18 = -18$   
infinitely many solutions

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**SOLVING SYSTEMS OF EQUATIONS**  
Solve systems of equations using substitution or elimination. Check your solution.  
 $2x - 6y = -18$   
 $x = 3y - 9$   
 $2(3y - 9) - 6y = -18$   
 $6y - 18 - 6y = -18$   
 $-18 = -18$   
infinitely many solutions

**Multiplying & Dividing Rational Expressions**  
Date: \_\_\_\_\_  
Directions: Multiply or divide the rational expressions. Show your work.

**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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