

QR Codes



Optional

One Stop  
**TEACHER**  
Shop

I "CAN"...

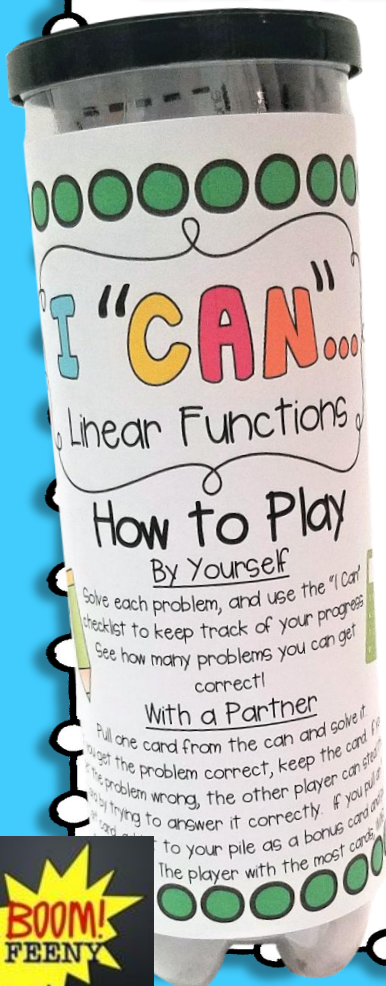
**LINEAR FUNCTIONS**

Try it

**FREE**

**ALGEBRA I**

**Math Games**

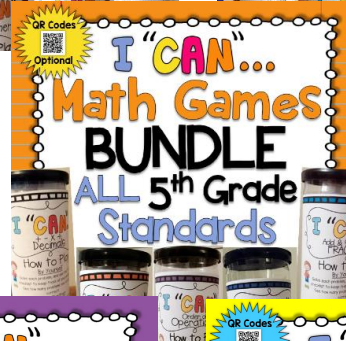
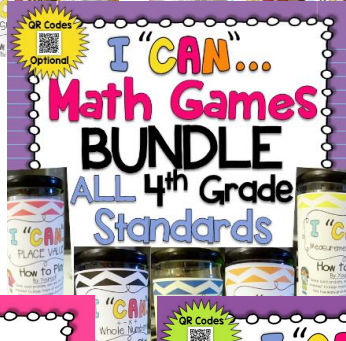
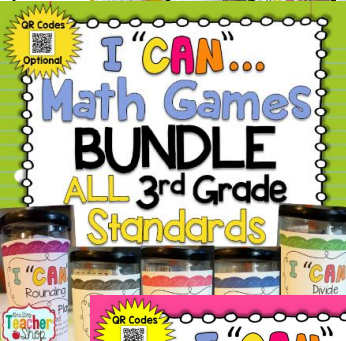


**BOOM!**  
**FEENY**

Thank YOU for downloading

this FREE "I Can" math game!

I hope you and your students enjoy this game! If you are looking for MORE math games like this one, click the pictures below.



Please note...the paid version of these games come with 40 questions. Each question comes in two different formats: multiple choice & short answer. QR codes are also available for checking answers.

These games are currently available for grades K-9

# Putting It Together

1. First you will need to find some cans. How many depends on how you are going to use this resource. If you would like a few groups at a time to be able to use this as a math game, you will need 2-4 cans. If you want to have it available as an independent activity, you may want to make 5-6.

\*\*I recommend regular sized tennis ball cans or "Pringles" potato chip cans. Don't have any? Try sending out an email to the other teachers at your school. You may be surprised at the response you get! 😊

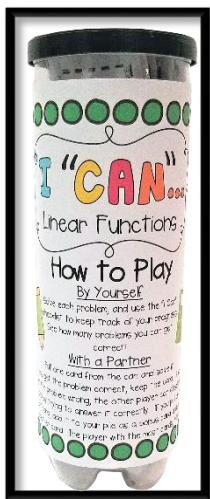
2. Based on the size can you have chosen, pick the cover size that fits best (two sizes are included). Wrap the cover around the can, gluing it down as you go. You may want to laminate the cover first for a long lasting resource, and secure it to the can with clear packing tape (this seems to work best).

3. Print the cards. In the PAID version, there are two sets of cards to choose from. The first set is multiple choice, and the second set is short answer. You can choose to use only one type of question, or mix the two types for more variety. You also have the option of using QR codes for students to check their answers. (Note: this free version only comes with the multiple choice option with 20 questions. The FULL game comes with 40 questions.)

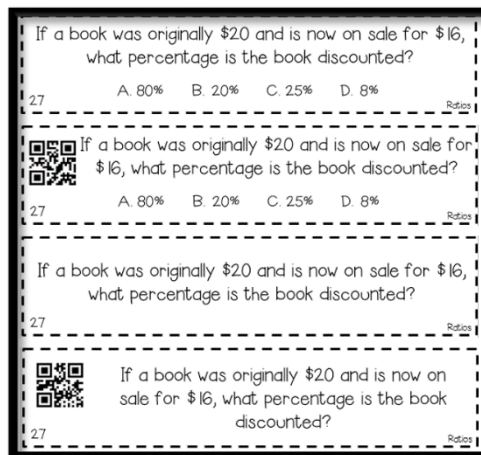
\*\*For a long lasting resource, you will want to laminate the cards, or print them on cardstock!

4. Put the cut-out cards into the can, and put the lid on! That's it! You now have a great new resource for your classroom!

See "Using this Resource" for ideas of how you can use this with your students!

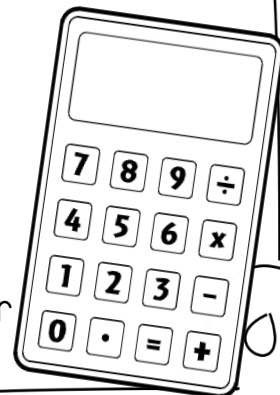


Tennis can



Multiple Choice & Short Answer

\*\*QR codes optional



# Using This Resource

## As a group math activity

In groups of 2 or more, students can play this game against one another by seeing who can collect the most cards. To collect a card, students must answer the question correctly. If they check their answer and it is incorrect, another player can attempt to answer the question correctly and keep the card for themselves. If a student pulls an "I Can" card, they can add this to their pile of cards as a bonus and pull another card to solve.

## As an independent activity

Students will pull a card from the can and solve it. They should record their answers on the "My Answers" sheet. When they are finished, they can check their answers using the answer key or QR code. It is a good idea to offer a reward/incentive for completing the set of cards, and/or mastering a certain percentage.

## As a progress monitoring tool

When students complete this activity independently, have them keep track of their progress using the "Checklist" provided (or you can use the checklist and check their work yourself). You can then use this checklist to see if the student has mastered the focus skill. You can also use this information to help you determine if, and in what area, further instruction is needed.

## Other Uses

- Project problems on a screen and play with the whole class.
  - Review for a Unit Test
  - Review for State Tests

## Standard Covered in this Resource

CCSS.MATH.CONTENT.HSF.LE.A.1

Distinguish between situations that can be modeled with linear functions and with exponential functions.

CCSS.MATH.CONTENT.HSF.LE.A.1.A

Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.

CCSS.MATH.CONTENT.HSF.LE.A.2

Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).

CCSS.MATH.CONTENT.HSA.REI.D.10

Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).

CCSS.MATH.CONTENT.HSF.IF.C.7

Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.\*

CCSS.MATH.CONTENT.HSF.IF.C.7.A

Graph linear and quadratic functions and show intercepts, maxima, and minima.



# I "CAN"...

## Linear Functions

### How to Play

#### By Yourself

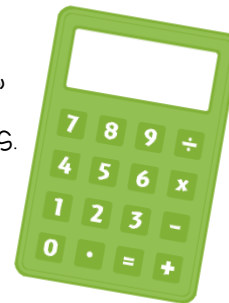
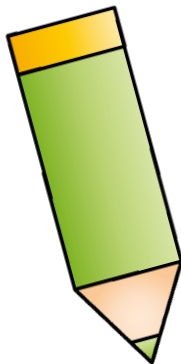
Solve each problem, and use the "I Can" checklist to keep track of your progress.

See how many problems you can get correct!

#### With a Partner

Pull one card from the can and solve it.

If you get the problem correct, keep the card. If you get the problem wrong, the other player can steal the card by trying to answer it correctly. If you pull an "I Can" card, add it to your pile as a bonus card and pull another card. The player with the most cards, WINS!



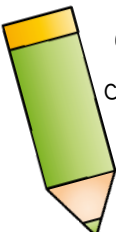


# I "CAN"...

## Linear Functions

### How to Play

#### By Yourself



Solve each problem, and use the "I Can" checklist to keep track of your progress.

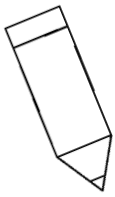
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# I CAN...



## Linear Functions

### Checklist

I CAN determine the slope of a linear function.

	Correct	Incorrect
1		
2		
3		
4		
5		

\_\_\_ out of 5 correct

I CAN describe the key features of a linear function.

	Correct	Incorrect
11		
12		
13		
14		
15		

\_\_\_ out of 5 correct

I CAN determine the solutions of a linear function.

	Correct	Incorrect
6		
7		
8		
9		
10		

\_\_\_ out of 5 correct

I CAN construct a linear function from a graph.

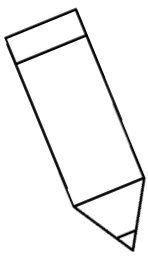
	Correct	Incorrect
16		
17		
18		
19		
20		

\_\_\_ out of 5 correct

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

I GOT \_\_\_\_\_ OUT OF 20 CORRECT!!!



# I CAN...



## Linear Functions

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_

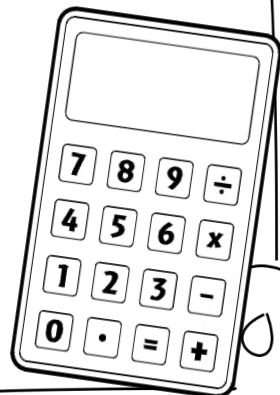
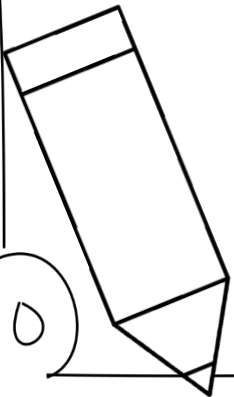


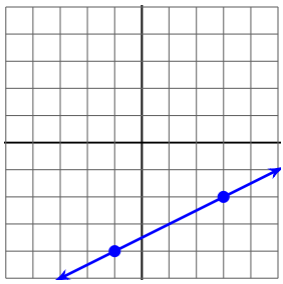
# I CAN...

## Linear Functions

### ANSWER KEY

1. A
2. D
3. D
4. C
5. A
6. C
7. B
8. C
9. B
10. B
11. B
12. A
13. C
14. B
15. D
16. A
17. D
18. B
19. D
20. D





Determine the slope of the line.

A.  $\frac{1}{2}$

B.  $-\frac{1}{2}$

C.  $\frac{3}{2}$

D. 2

Linear Functions

Determine the slope of the line between  $(-6, 13)$  and  $(1, 11)$ .

A.  $\frac{2}{7}$

B.  $\frac{7}{2}$

C.  $-\frac{5}{2}$

D.  $-\frac{2}{7}$

Linear Functions

The table below has a linear relationship. Determine the slope.

X	1	2	3	4	5
Y	4.75	6	7.25	8.5	9.75

A. 2.25

B. 2.5

C. 1

D. 1.25

Linear Functions

Determine the slope of the line between  $(-7, -15)$  and  $(-1, -10)$ .

A.  $\frac{6}{5}$

B.  $\frac{25}{8}$

C.  $\frac{5}{6}$

D. 3

Linear Functions

Determine the value of  $y$  so that a line through the two points will have a slope of  $\frac{1}{8}$ :  $(-7, -4)$  and  $(1, y)$

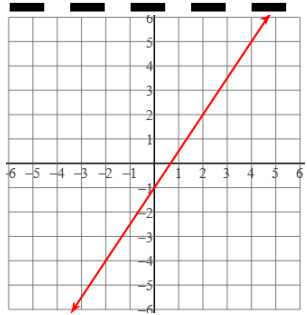
A. -3

B.  $\frac{1}{2}$

C. 5

D. -2

Linear Functions



Which of the following is a solution to the linear function in the graph?

- A. (1,1)      B. (5,3)      C. (-2,-4)      D. (-3,-4)

Linear Functions

Which of the following is a solution to the linear function  $y = \frac{4}{5}x + 7$ ?

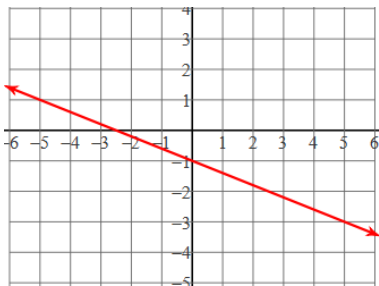
- A. (0,1)      B. (15,19)      C. (-5,11)      D. (-2,1)

Linear Functions

Which of the following is a solution to the linear function  $3y - 2x = -12$ ?

- A. (1,0)      B. (6,3)      C. (-9,-10)      D. (-1,-6)

Linear Functions



Which of the following is a solution to the linear function in the graph?

- A. (1,2)      B. (10,-5)      C. (-8,-4)      D. (1,10)

Linear Functions

Identify the missing x value of the linear function in the table.

<b>X</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>?</b>	<b>18</b>
<b>Y</b>	<b>6</b>	<b>7</b>	<b>9</b>	<b>11</b>	<b>14</b>

- A. 16      B. 12      C. 10      D. 14

Linear Functions

Determine the slope of the function  $y - 2x = 18$

- A.  $\frac{1}{2}$
- B. 2
- C.  $-2$
- D. 9

Linear Functions

Determine the y-intercept of the function

$$3y - 4x = 24$$

- A. (0,8)
- B. (0,6)
- C. (0,3)
- D. (8,0)

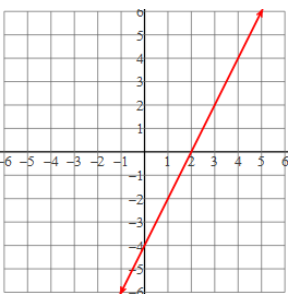
Linear Functions

Determine the x-intercept of the function

$$y = \frac{2}{5}x + 20$$

- A. (0,20)
- B. (0,50)
- C.  $(-50,0)$
- D. (10,0)

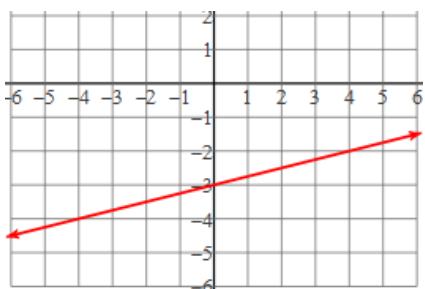
Linear Functions



Determine the slope of the function in the graph.

- A.  $\frac{1}{2}$
- B. 2
- C.  $-4$
- D. 9

Linear Functions

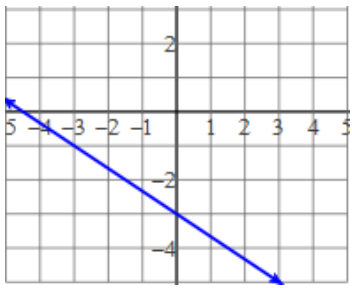


Determine the x-intercept of the function in the graph.

- A.  $(\frac{1}{4}, 0)$
- B. (0,  $-3$ )
- C. (6,0)
- D. (12,0)

Linear Functions

16



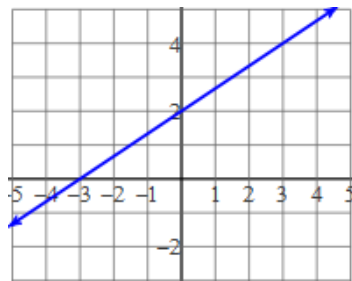
Which equation best models the graph?

A.  $y = -\frac{2}{3}x - 3$       B.  $y = -3x - \frac{2}{3}$

C.  $y = x - \frac{2}{3}$       D.  $y = -\frac{2}{3}x + 1$

Linear Functions

17



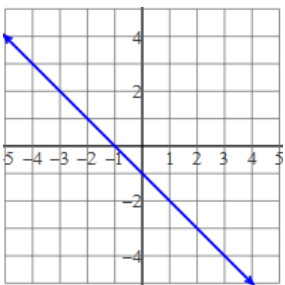
Which equation best models the graph?

A.  $y = -2x + \frac{2}{3}$       B.  $y = 2x + \frac{2}{3}$

C.  $y = -\frac{1}{3}x + \frac{2}{3}$       D.  $y = \frac{2}{3}x + 2$

Linear Functions

18



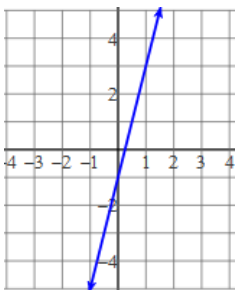
Which equation best models the graph?

A.  $y = -4x - 1$       B.  $y = -x - 1$

C.  $y = -x + 4$       D.  $y = 4x - 1$

Linear Functions

19



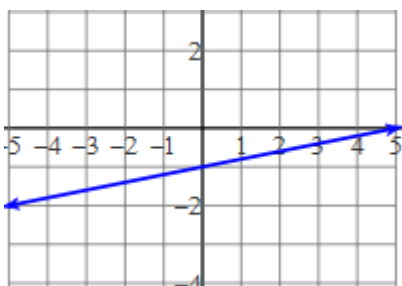
Which equation best models the graph?

A.  $y = 5x - 1$       B.  $y = -x - 1$

C.  $y = -5x - 1$       D.  $y = 4x - 1$

Linear Functions

20

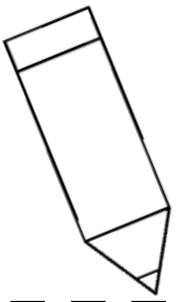


Which equation best models the graph?

A.  $y = -x - \frac{2}{5}$       B.  $y = -\frac{2}{5}x - 1$

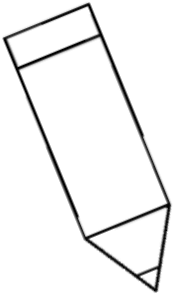
C.  $y = \frac{4}{5}x - 1$       D.  $y = \frac{1}{5}x - 1$

Linear Functions



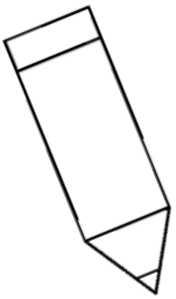
I CAN... ..

Linear Functions



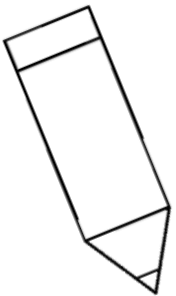
I CAN... ..

Linear Functions



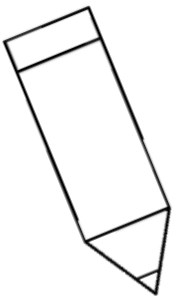
I CAN... ..

Linear Functions



I CAN... ..

Linear Functions



I CAN... ..

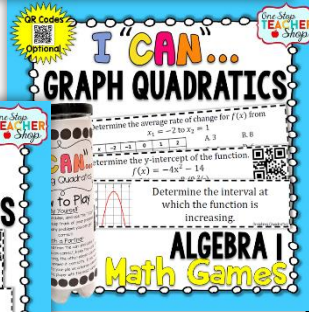
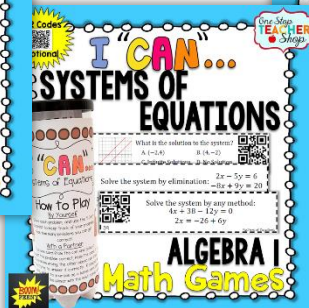
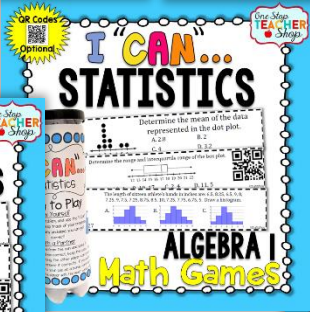
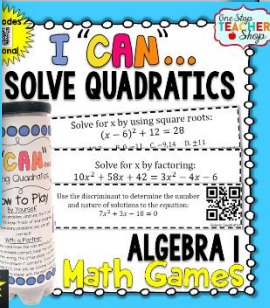
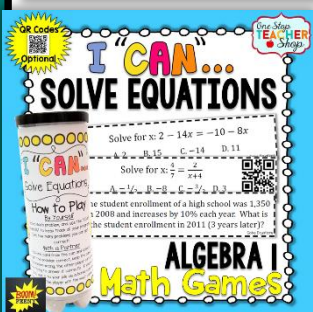
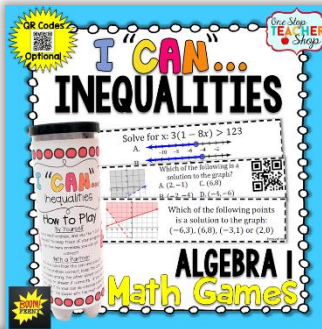
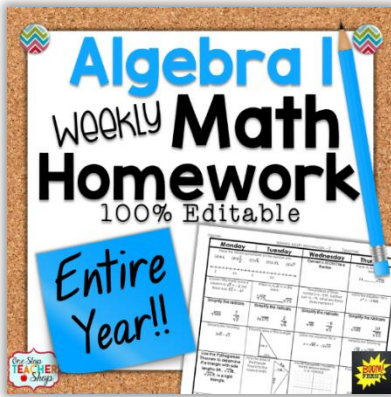
Linear Functions



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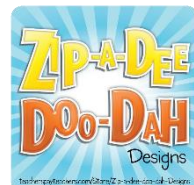
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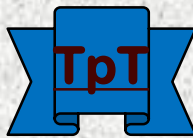


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