

# Ups & Downs

## TEACHER'S GUIDE


1. Print an Ups & Downs rule sheet (pg. 2) and an Ups & Downs game board (pg. 3) on bright colored paper for each group. Place both in a plastic sheet protector. I would not recommend printing back-to-back unless you are using cardstock.
2. Print Ups & Downs game cards back-to-back. So, pages 4-5, pages 6-7, and pages 8-9. Cut cards in half at 5.5 inches on a paper cutter. Stack. Now, cut cards in half at 4.25 inches using a paper cutter. Cut remaining cards in half at 2.75 inches.
3. Print an Ups & Downs answer key (pg. 10) for each group or post one in your classroom.
4. Print an Ups & Downs scratch paper (pg. 11) for each person. This is optional.
5. Each group will need a number cube and chips to mark their place.

# Ups & Downs

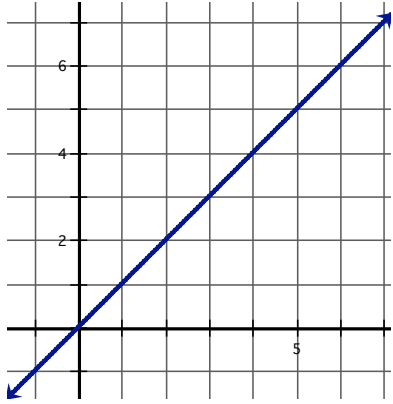
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## HOW TO PLAY THE GAME

1. Stack the Ups & Downs cards face down so you can't see the questions.
2. Have each person roll the number cube to see who goes first. The person who rolls closest to 1, starts the game. If more than one person rolls a 1, they roll again. Once you have determined who goes first, the order goes clockwise.
3. The first player to go chooses a Ups & Downs card and everyone solves the problem on scratch paper. If the player answers the problem correctly, they roll the number cube and move that number of spaces on the game board.
4. If you land on a square that has a dot, you must follow the arrow up or down. Examples:
  - If you land on square 20 you would follow the arrow up to square 35.
  - If you land on square 26 you would follow the arrow down to square 9.
  - If you land on square 32, you would stay on square 32 because it doesn't have a dot.
5. If you land on a square that has BONUS ROLL, then you roll again.
6. The first person to get to the finish line (or beyond the finish line) is the WINNER!

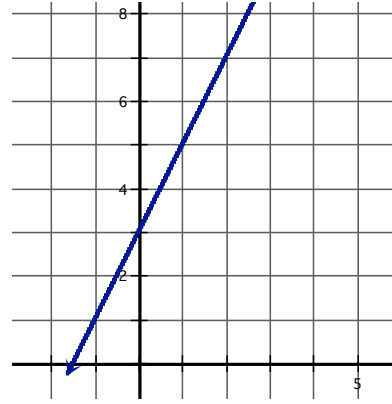
33	34	35	36	37	38	39	40 
32	31 BONUS ROLL	30	29	28	27	26	25
17	18	19	20	21	22 BONUS ROLL	23	24
16	15	14	13	12	11	10	9
1 START	2	3	4	5	6	7	8

Show the graph below to your group. Find the slope of the line.



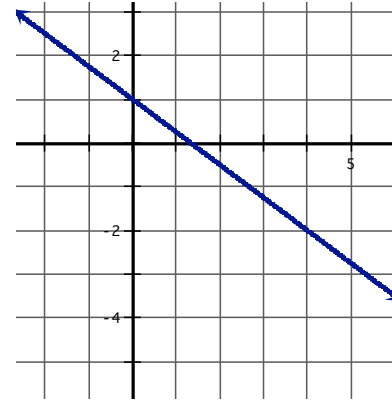
**A**

Show the graph below to your group. Find the slope of the line.



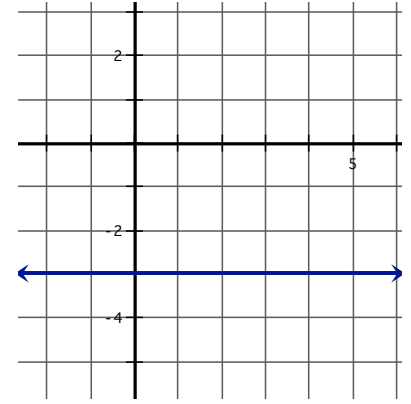
**B**

Show the graph below to your group. Find the slope of the line.



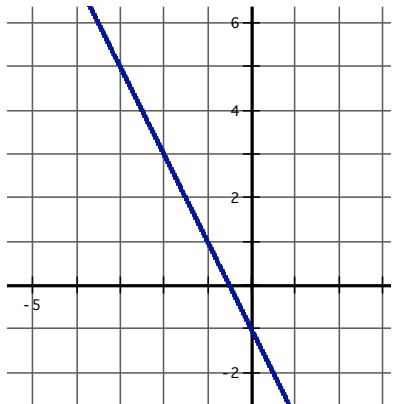
**C**

Show the graph below to your group. Find the slope of the line.



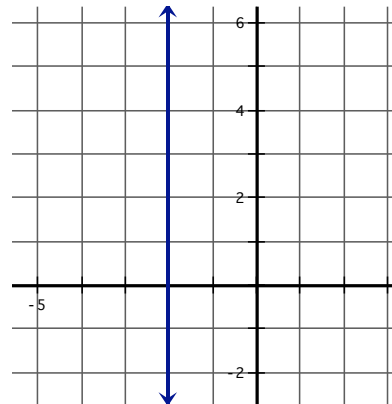
**D**

Show the graph below to your group. Find the slope of the line.



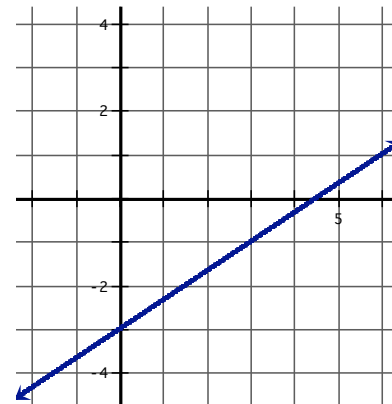
**E**

Show the graph below to your group. Find the slope of the line.



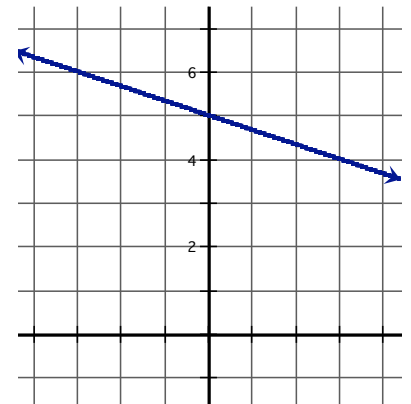
**F**

Show the graph below to your group. Find the slope of the line.

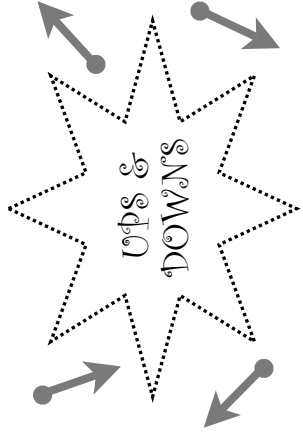
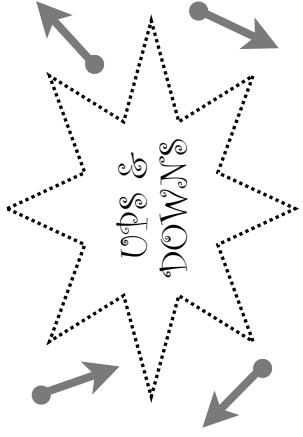
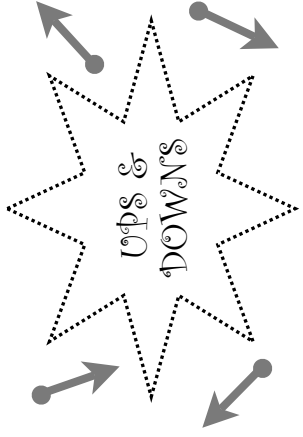
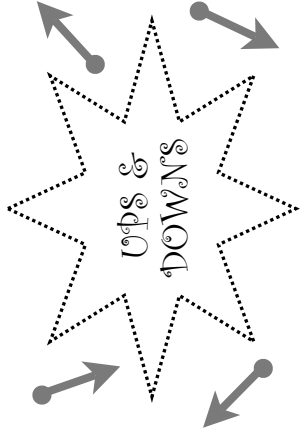
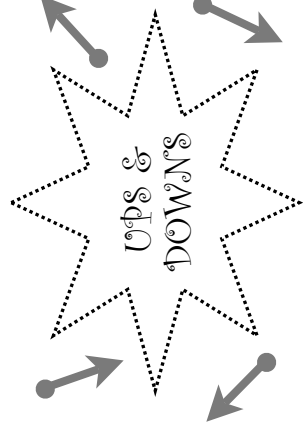
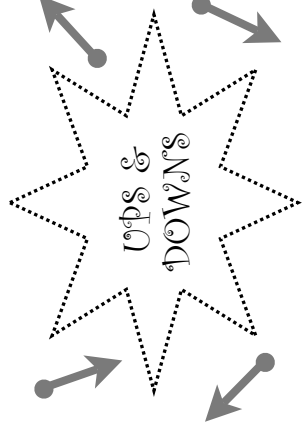
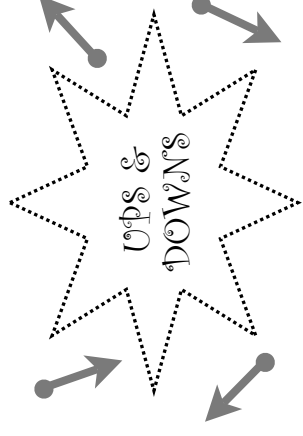
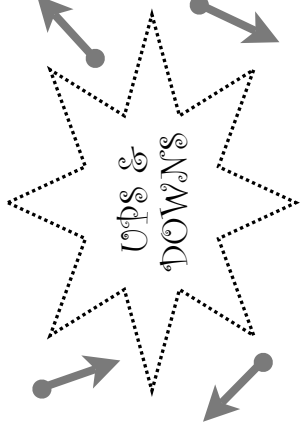


**G**

Show the graph below to your group. Find the slope of the line.



**H**



Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(3, 8)**  
and  
**(2, 10)**

I

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(7, 1)**  
and  
**(-5, -3)**

J

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(9, 0)**  
and  
**(9, -1)**

K

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(6, 4)**  
and  
**(3, 1)**

L

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(8, 5)**  
and  
**(2, 8)**

M

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(1, 4)**  
and  
**(5, 7)**

N

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

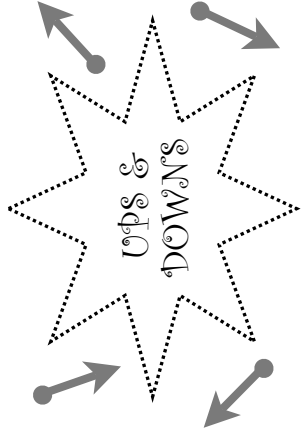
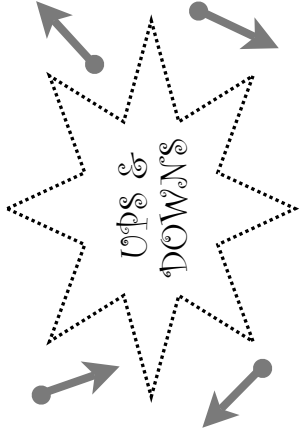
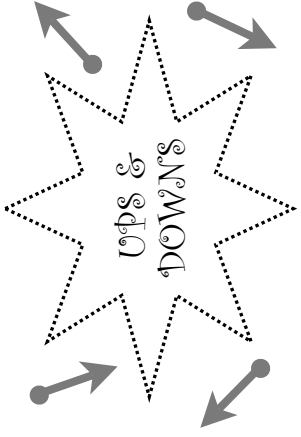
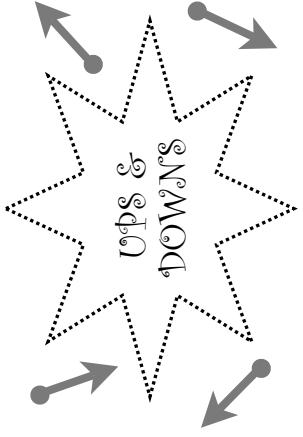
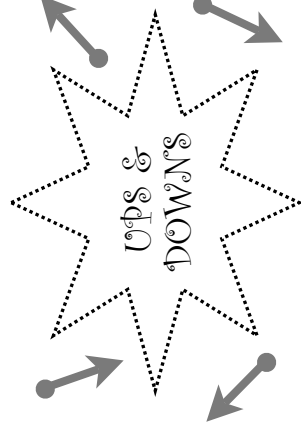
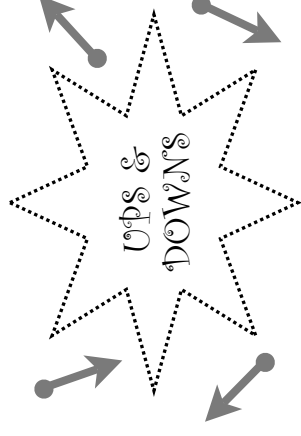
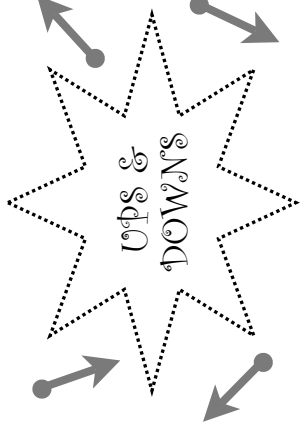
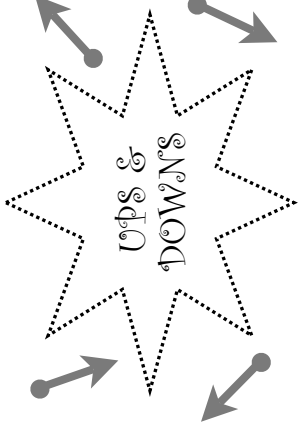
**(7, 10)**  
and  
**(4, 1)**

O

Read the coordinate points out loud to your group. Find the slope of the line that contains them.

**(3, 4)**  
and  
**(-2, 4)**

P



Graph a line with the slope below.

$$\text{slope} = 2$$

Q

Graph a line with the slope below.

undefined  
slope

R

Graph a line with the slope below.

$$\text{slope} = 4$$

S

Graph a line with the slope below.

$$\text{slope} = -3$$

T

Graph a line with the slope below.

$$\text{slope} = -\frac{1}{2}$$

U

Graph a line with the slope below.

$$\text{slope} = 0$$

V

Graph a line with the slope below.

$$\text{slope} = -2$$

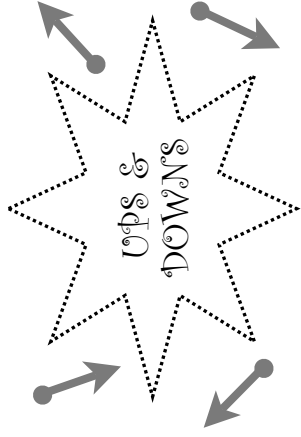
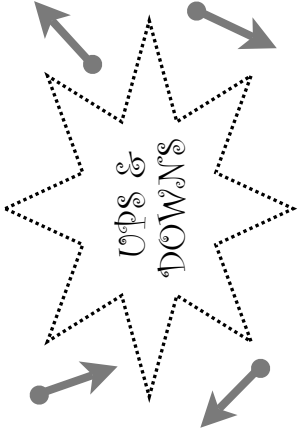
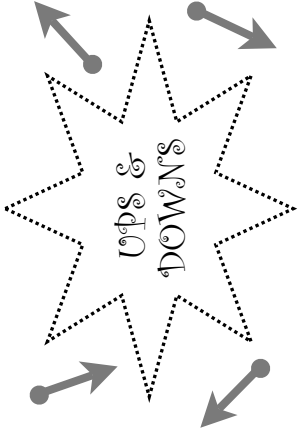
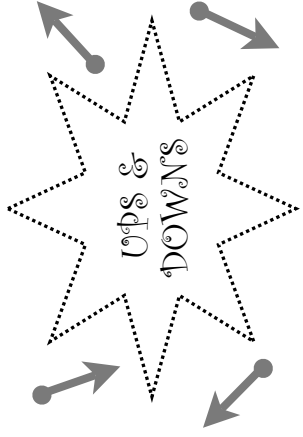
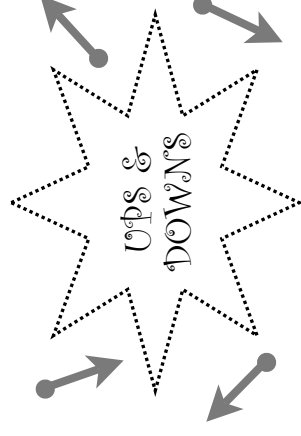
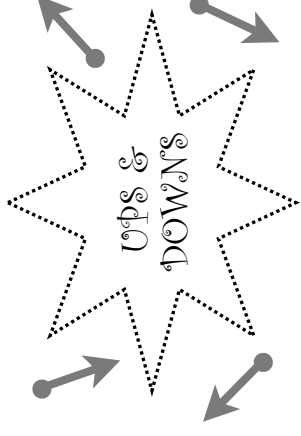
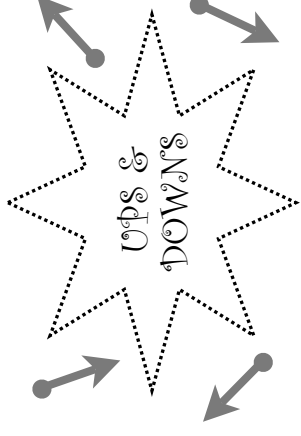
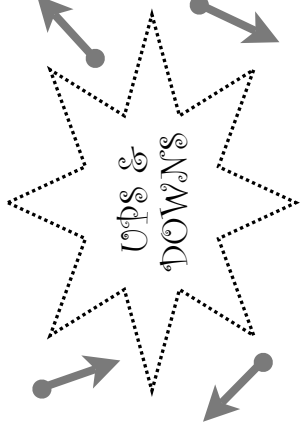
W

Graph a line with the slope below.

$$\text{slope} = \frac{2}{3}$$

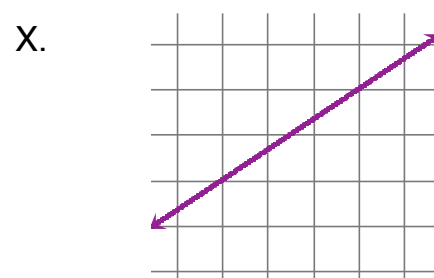
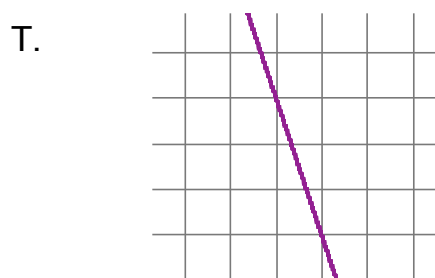
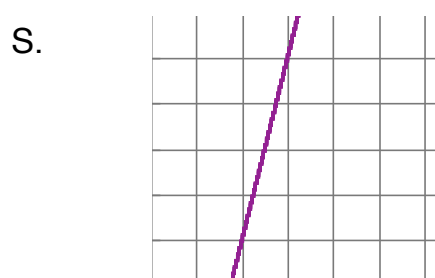
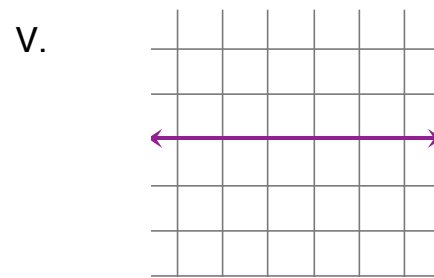
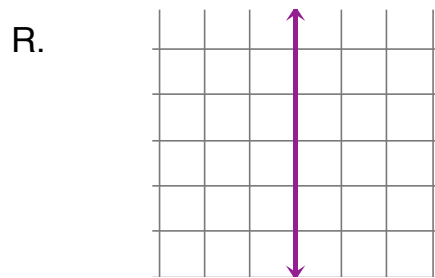
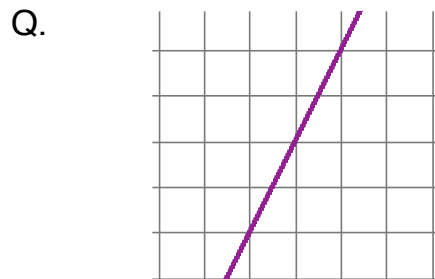
X





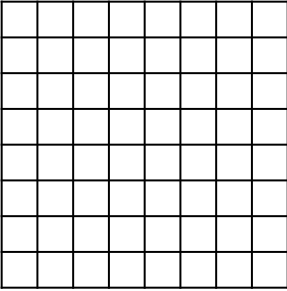
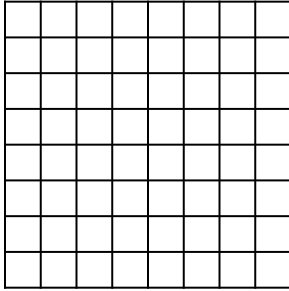
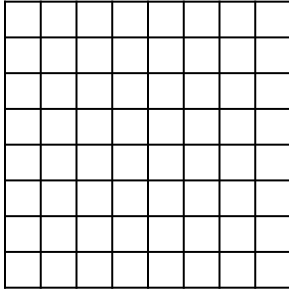
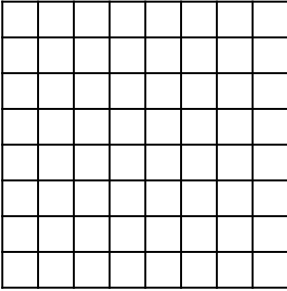
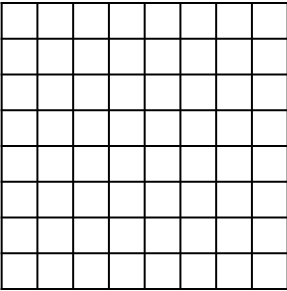
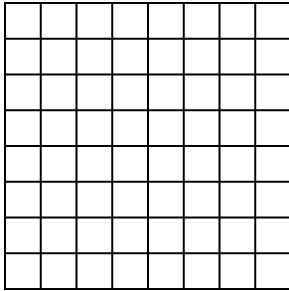
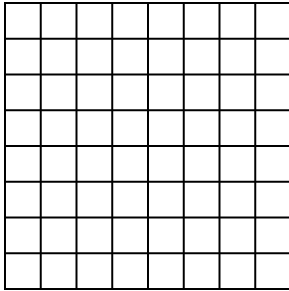
# Answer Key

- A. slope = 1
- B. slope = 2
- C. slope =  $-3/4$
- D. slope = 0
- E. slope =  $-2$
- F. undefined
- G. slope =  $2/3$
- H. slope =  $-1/3$
- I. slope =  $-2$
- J. slope =  $1/3$
- K. slope = 0
- L. slope = 1
- M. slope =  $-1/2$
- N. slope =  $3/4$
- O. slope = 3
- P. undefined



# Ups & Downs

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

A.	B.	C.	D.
E.	F.	G.	H.
I.	J.	K.	L.
M.	N.	O.	P.
Q. 	R. 	S. 	T. 
U. 	V. 	W. 	X. 