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TO THE TEACHER

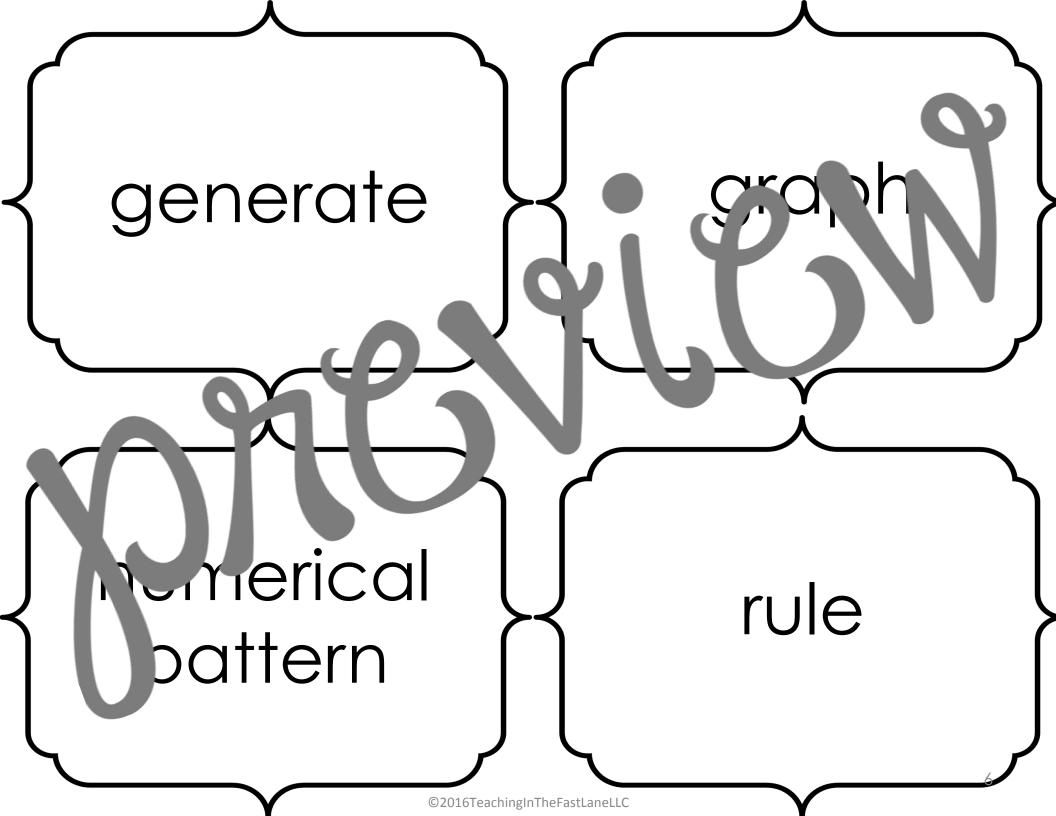
- This product is meant to be a no frills, all action tool for cementing the concept of graphing numerical patterns in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
- TEKS
 - 5.4c generate a numerical pattern when given a rule in the form y=ax=x+a and graph
- COMMON CORE
 - CCSS.MATH.CONTENT.5.OA.B.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms form the two pattern, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence.
 Explain informally why this is so.

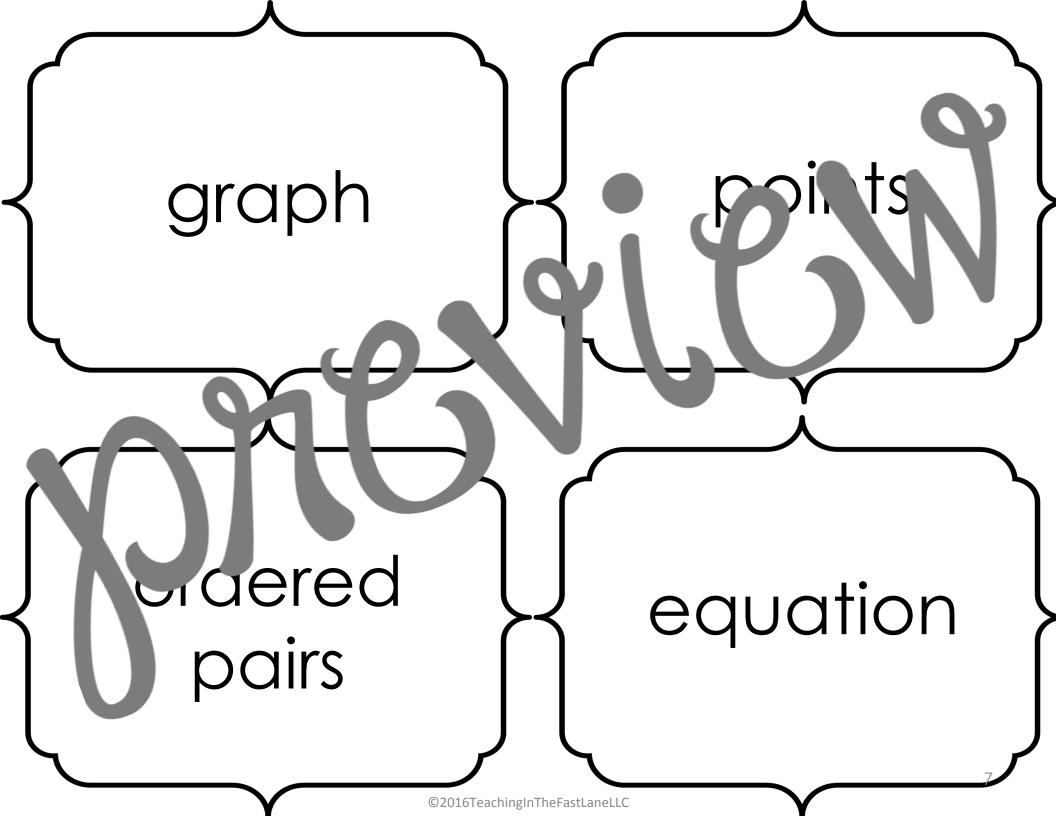
PREP RECOMMENDATIONS

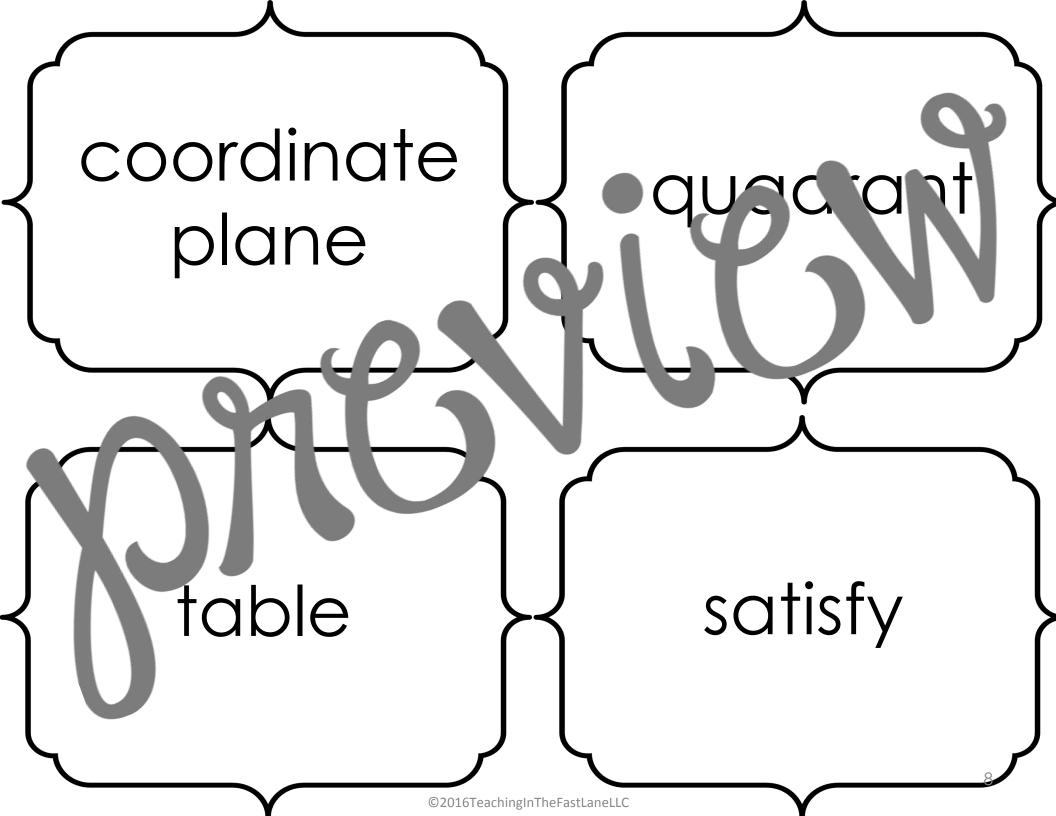
- Each activity is created in black and white to conserve color ink.
 - Using colored paper to differentiate different parts in each activity or the different stations will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.

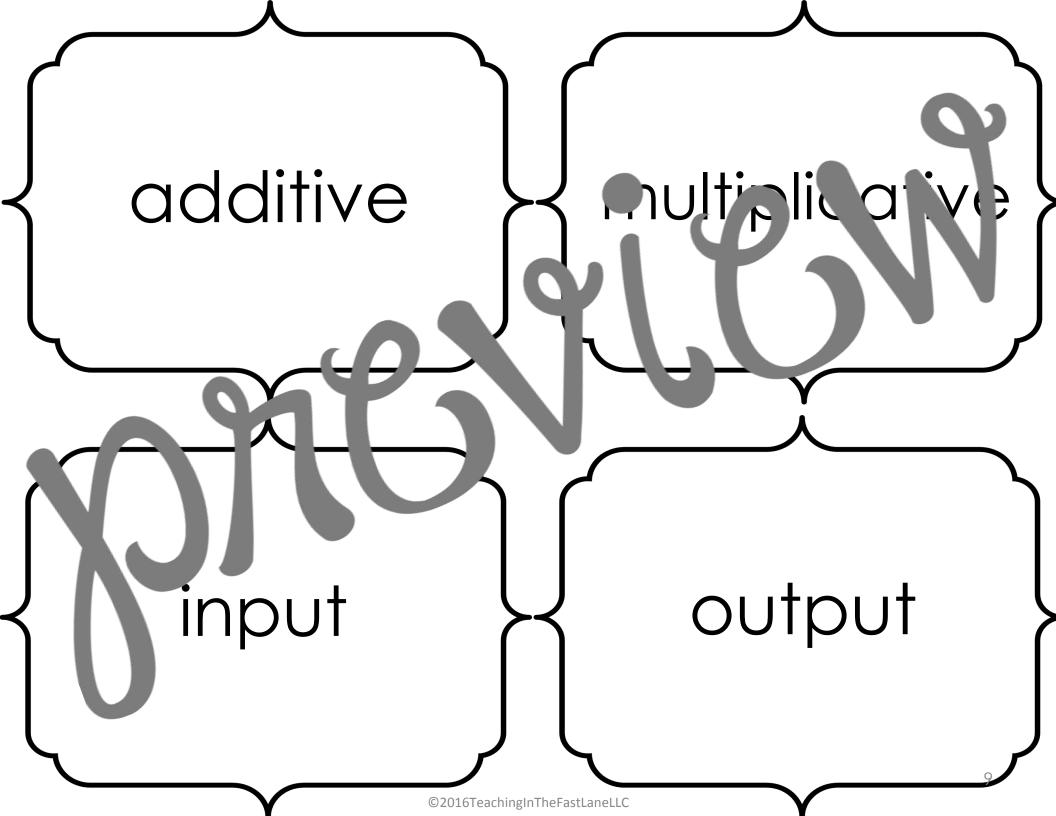
CONTENT VOCABULARY generate numerical pattern graph ordered pairs pro note plo additive input x-axis

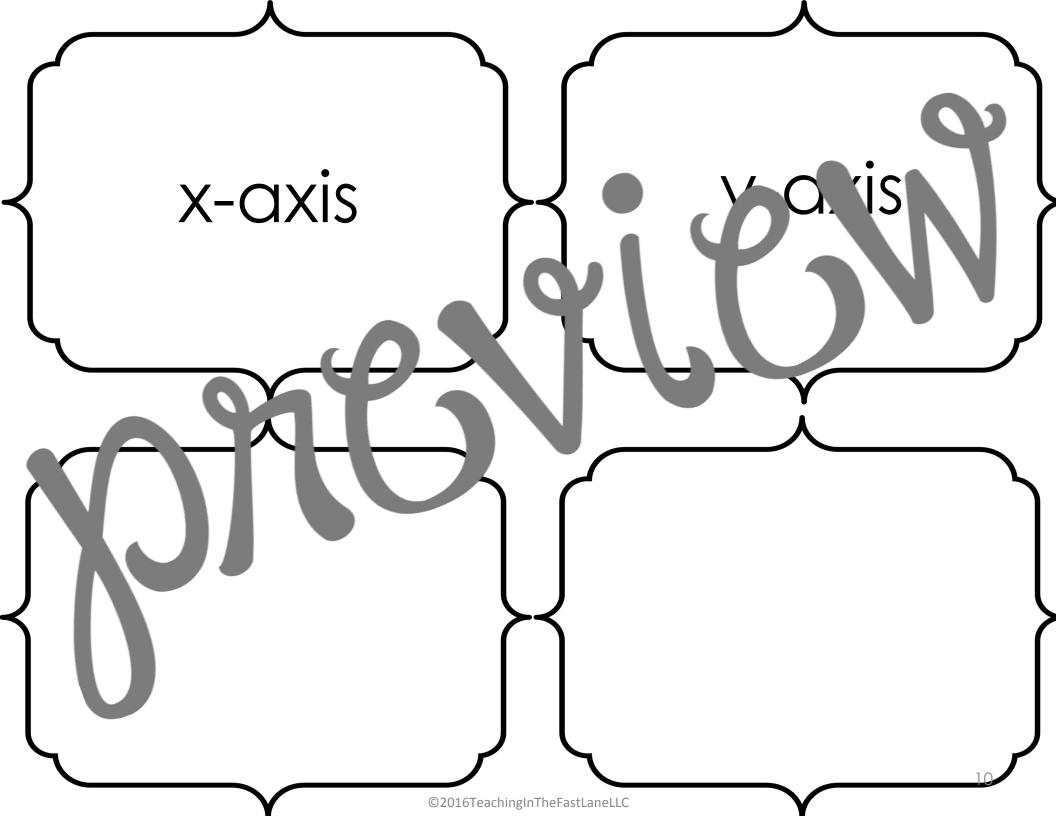
graph Cation quadrant satisfy multiplicative output y-axis

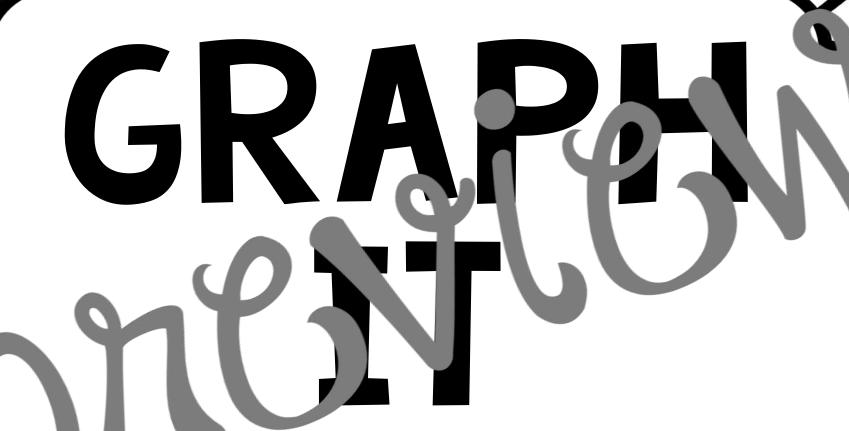












Jee the tables to graph the given coordinate pairs.

TEACHER SUGGESTIONS GRAPHIT

- In this activity students a casked to use the tables with provided coor air ate, airs to graph to e, on is.
- This activity can be used in a varie value of ways.
 - ✓ Sr a group with teacher Jidance
 - A partner activity for practice
 - ✓ Independently to assess

<u>Mater</u> <u>s</u>

Inc ided:

- Taking
- Recording Sheet
- Answer Key
 Not Included:
- Pencil

Χ	Υ
1	2
2	4
3	6

Χ	Y
4	2
6	3
Q	34

Χ	
	4
5	
7	10

X	9
4	8
5	7

X	Υ
6	4
8	3
10	2

Χ	Y
9	1
8	2
7	3

X

5

Q	
O	

Χ	Y
10	10
9	9

Χ	
	6
5	
4	8

X	Υ
9	7
10	6
11	5

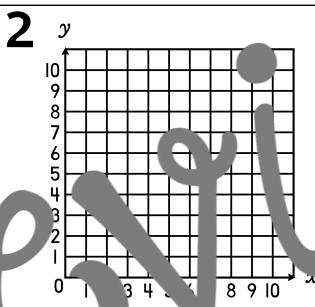
12

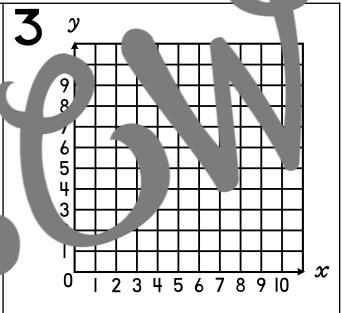
Χ	Υ
3	5
5	5
7	5

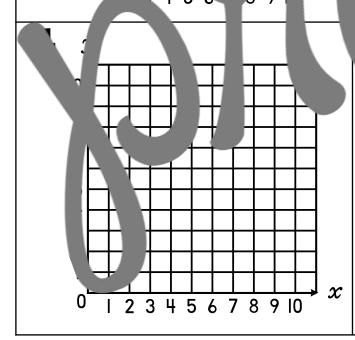
GRAPH IT RESPONSE SHEET

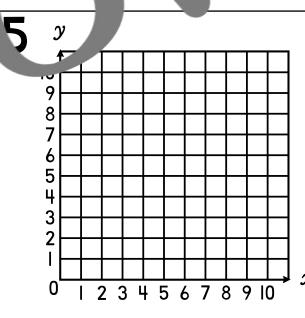
Use the tables to graph the given ordered pairs.

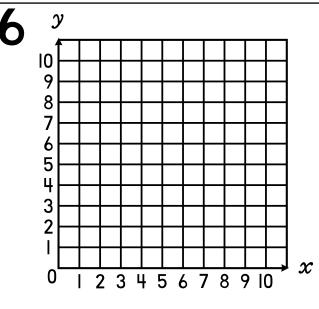
y 3 4 5 6





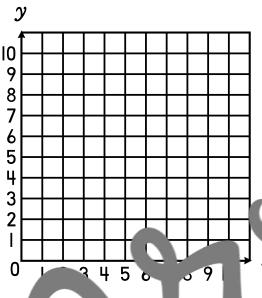


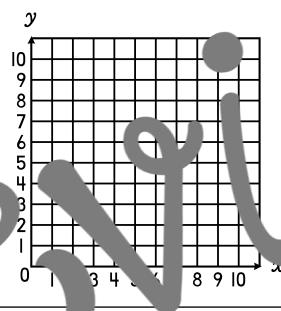


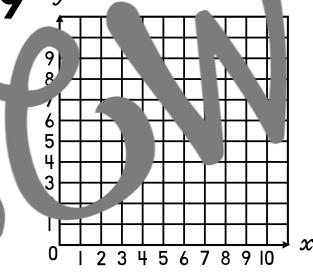


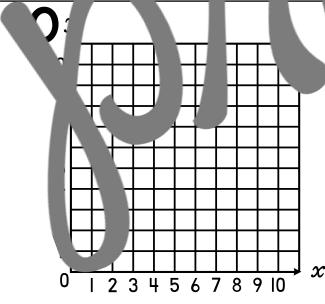
GRAPH IT RESPONSE SHEET

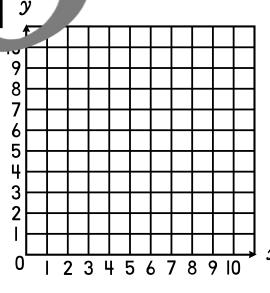
Use the tables to graph the given ordered pairs.

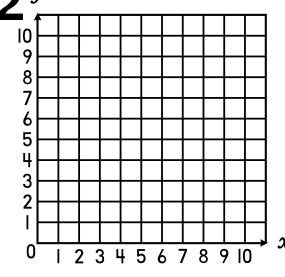




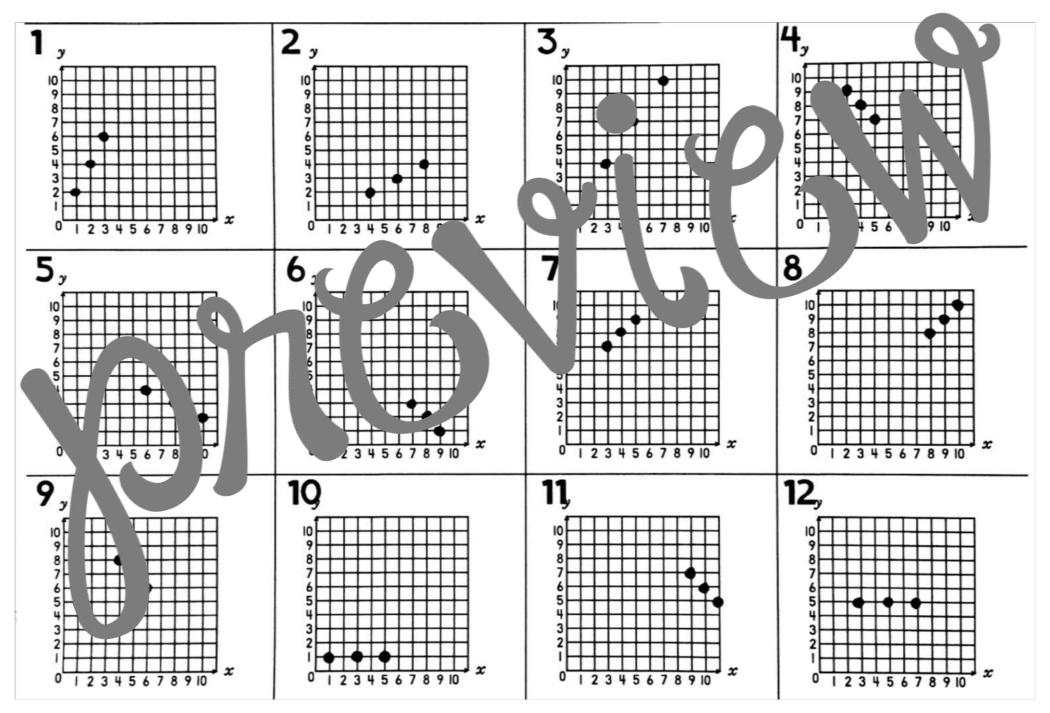


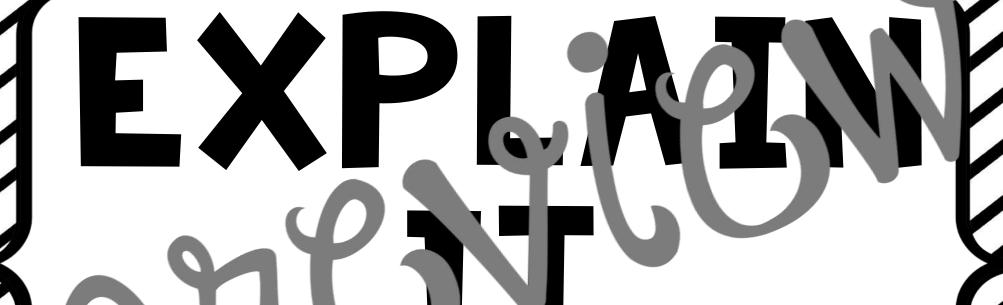






GRAPH IT ANSWER KEY





your math vocabulary to respond to the writing prompt.

TEACHER SUGGESTIONS EXPLAIN IT.

- In this activity students a casked to use their math vocabulary to espon to the property
- This activity can be used in a varie varie varie.
 - ✓ Sr a group with teacher Jidance
 - A partner activity for practice
 - ✓ Independently to assess

<u>Mater</u> s

Inc ided:

- Recording Sheet with Prompt Not Included:
- Pencil
- Answer Key

Name		Date	
------	--	------	--

EXPLAIN IT RESPONSE SHEET

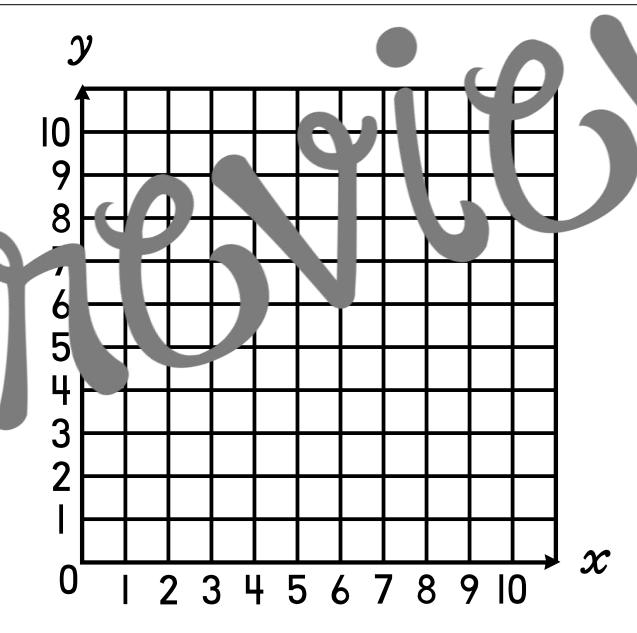
Explain the process that you would use to determine the numerical pattern of a set of graphed coordinate mairs. Use t back of this page to show an excaple.



Name _____ #___ Date____

EXPLAIN IT RESPONSE SHEET

Use the graph below to show your example.





the "START" card and follow the directions to use all cards stopping at the "END" card.

TEACHER SUGGESTIONS QR CODES

- In this activity students are asked to scan QR codes and follow the an econs ky identifying ord red paid
- This activity active used a carie y of whys
 - ✓ Sinc grep with
 - * a her guidance
 - A partner activity for practice
 - Independently to assess

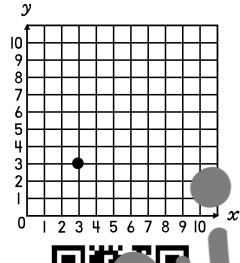
Mater s

Incl ded:

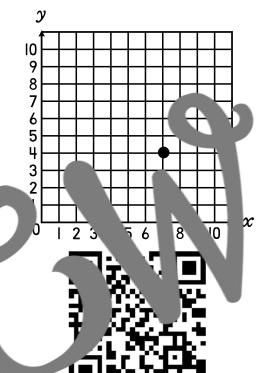
- Que Code Cards
 of Included:
- A device capable of scanning QR Codes such as a smartphone or tablet

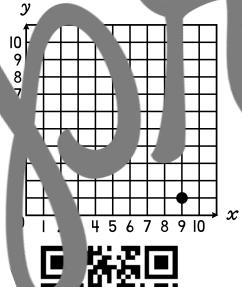
START



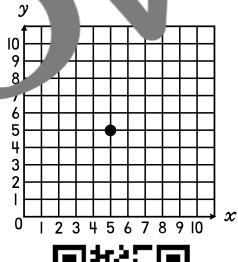




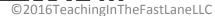


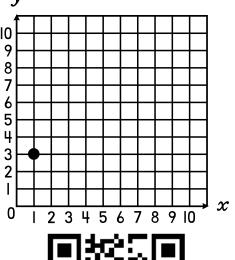




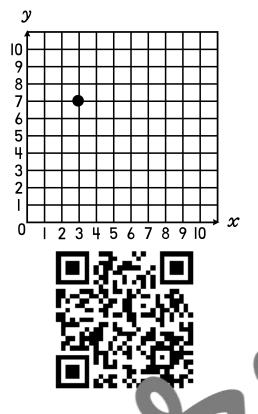


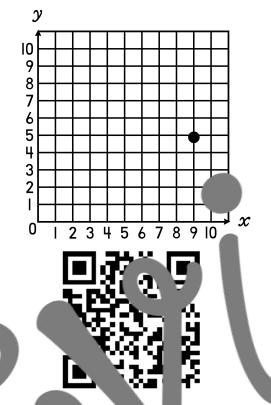


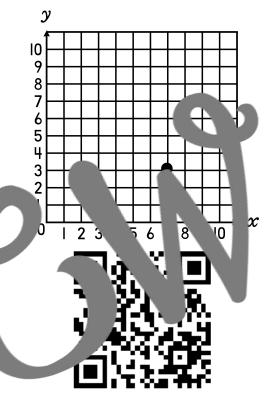


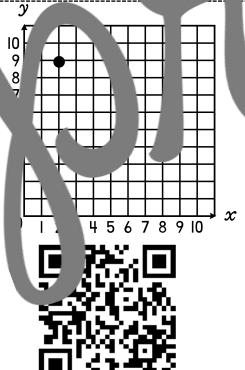


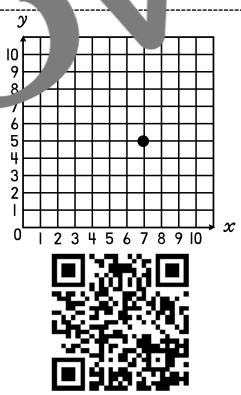


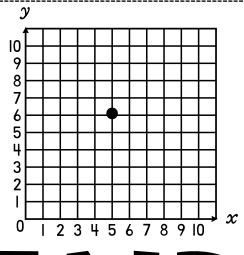
















Complete a table based on a graph.

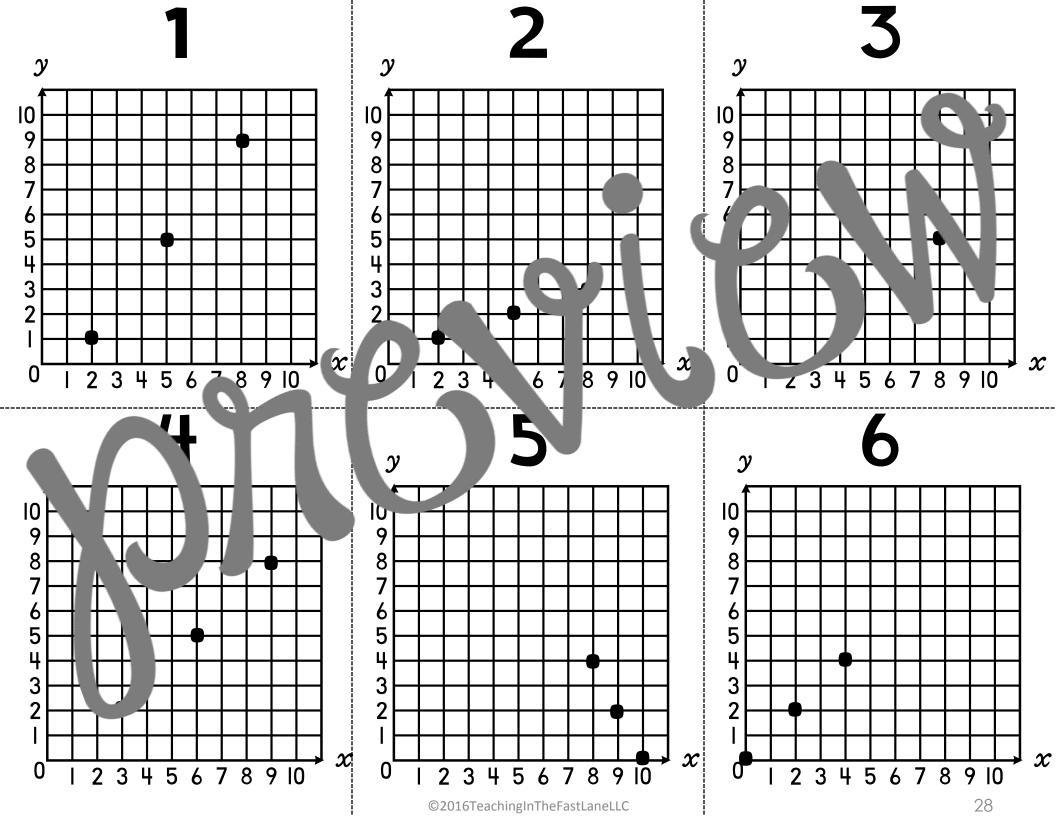
TEACHER SUGGESTIONS FILL IT-IN

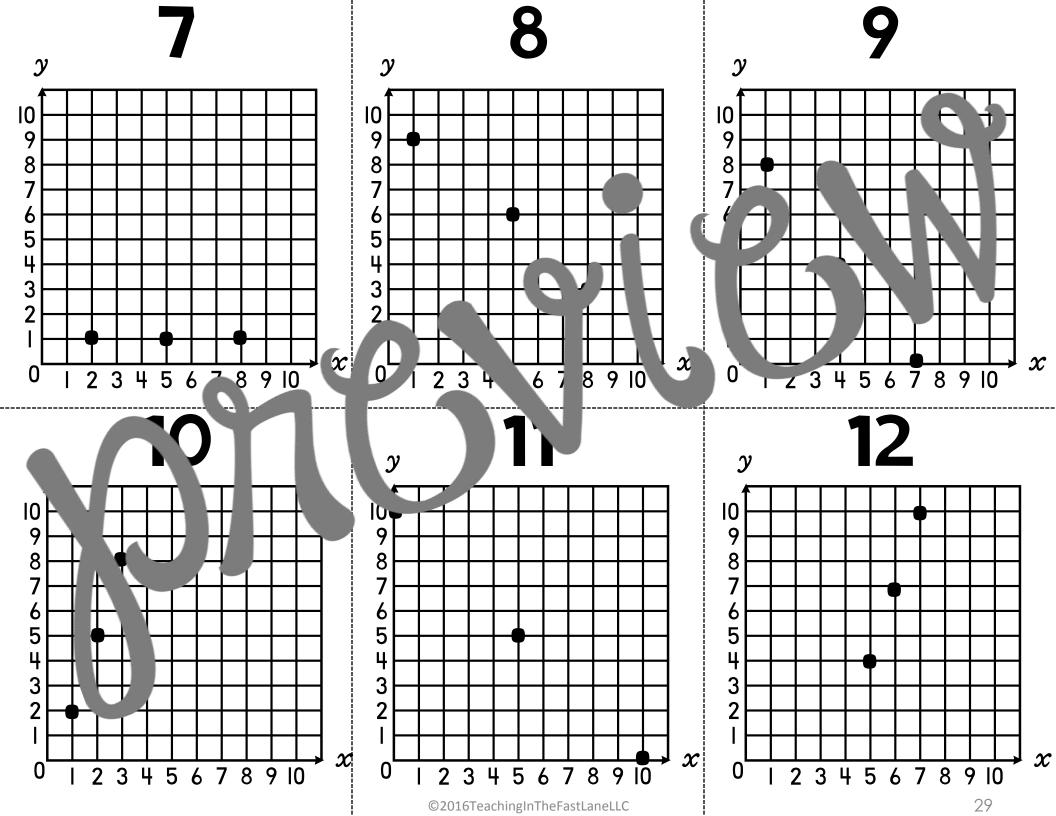
- In this activity students a casked to complete ables based on a giver graph.
- This activity combet see in common ty of way:
 - ✓ Shall gropy the Jeacher gld nce
 - petner activity for practice
 - Independently to assess

Mater s

Inc ided:

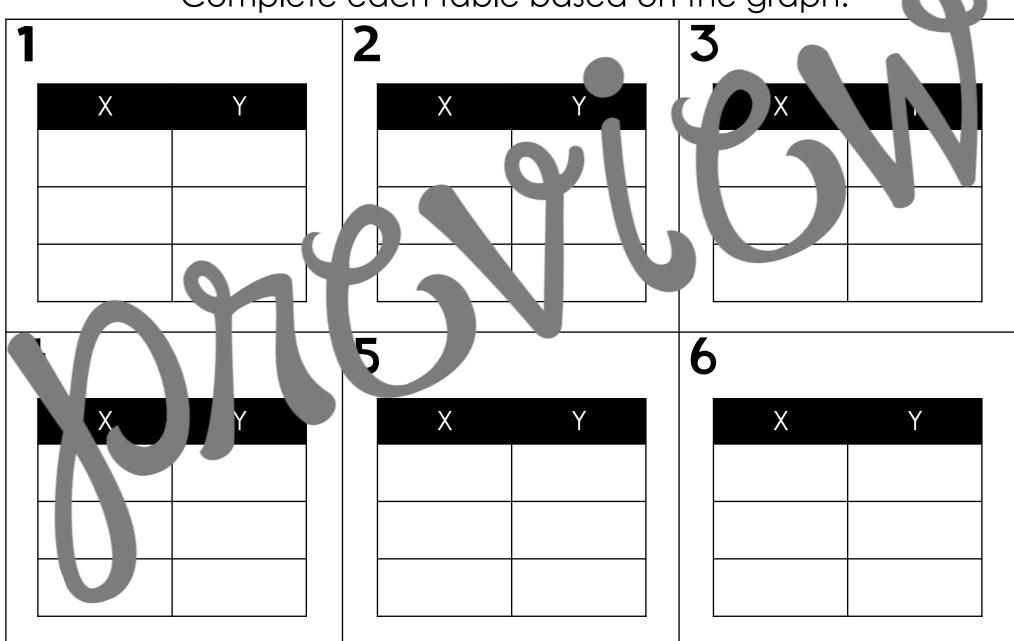
- · Graphs
- Recording Sheet with Blank Tables
- Answer Key
 Not Included:
 - Pencil





FILL IT IN RESPONSE SHEET

Complete each table based on the graph.



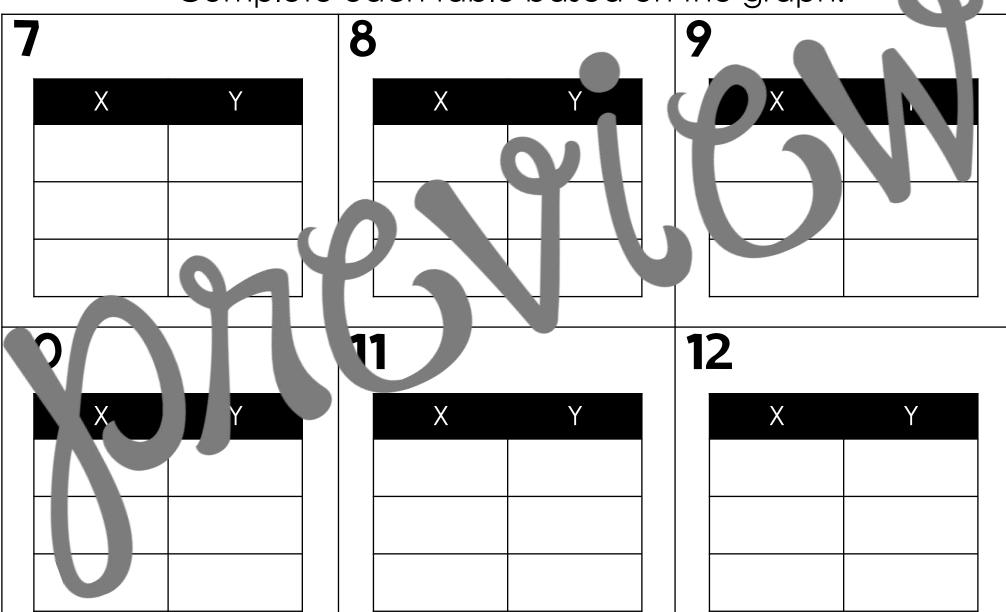
Name _____

#

Date____

FILL IT IN RESPONSE SHEET

Complete each table based on the graph.



FILL IT IN ANSWER KEY

1			2			3			4			
	Χ	Y		Χ	Y		X	Y		X	4	
	2	1		2	1			1		3	2	
	5	5		5	2		4	3				
	8	9		8	3	C	8	5	4	7	8	
	5									1	3	
	Χ	Y			Y		X			Χ	Υ	
	8	4			0		2	1		1	9	
		2		2	2		5	1		5	6	
	0			1	4		8	1		8	3	
				10			11			12		
	X	Y		Χ	Υ		X	Υ		Χ	Y	
	1	8		1	2		0	10		5	4	
		4		2	5		5	5		6	7	
	7	0		3	8		10	0		7	10	

CREATE

Use coodinate pairs to create an Luge, and then record the ordered pairs needed for someone to recreate the image.

TEACHER SUGGESTIONS CREATE-IT

• In this activity students are asked to create their own image on a coordinate lan and the recording the ordered pris needed for some the secretary the mage.

This activity combused in a crief coways:

- mall group with teacher guidance
- A partner activity for practice
- ✓ Independently to assess

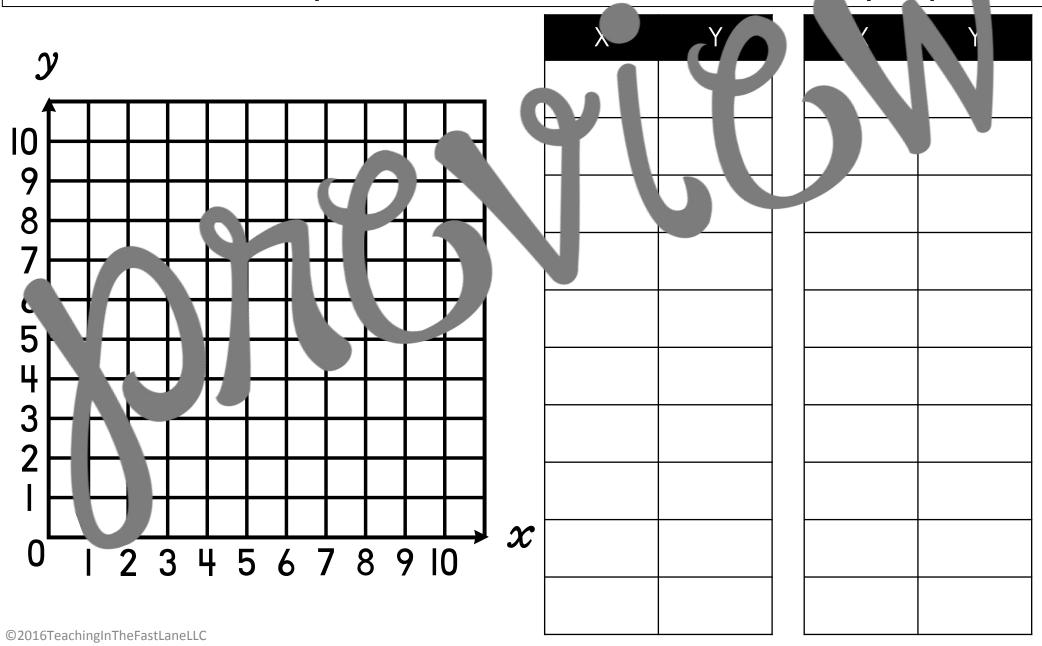
Mater 9

Inc ided:

- Blank
 Coordinate
 Plane
- Not Included:
- Pencil
- Answer Key

CREATE IT RESPONSE SHEET

Use the graph below to create a picture using coordinate pairs, and the record the coordinate pairs so that someone else could recreate your picture.





Y to complete the table.

TEACHER SUGGESTIONS ROLL A PULE

- In this activity students a casked to use the director to real arule for X and Y to complete the able.
- This activity can be used in a varie varie varie.
 - ✓ Sr a group with teacher Jidance
 - A partner activity for practice
 - ✓ Independently to assess

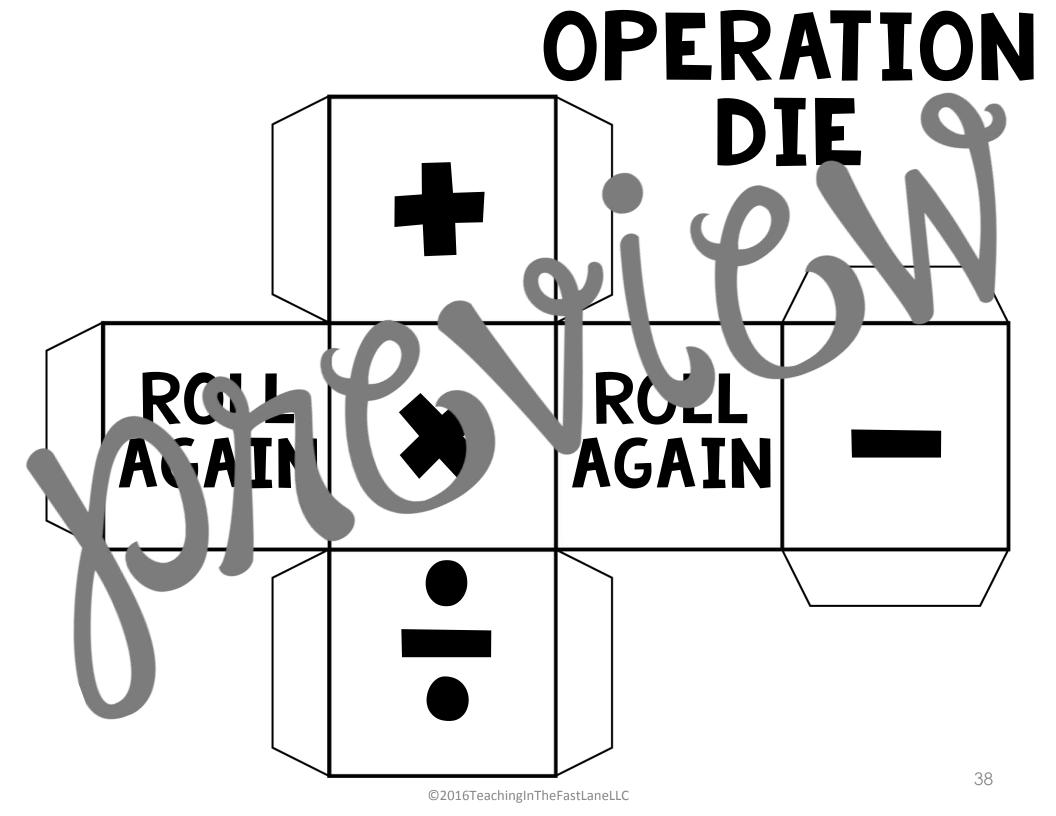
Mater s

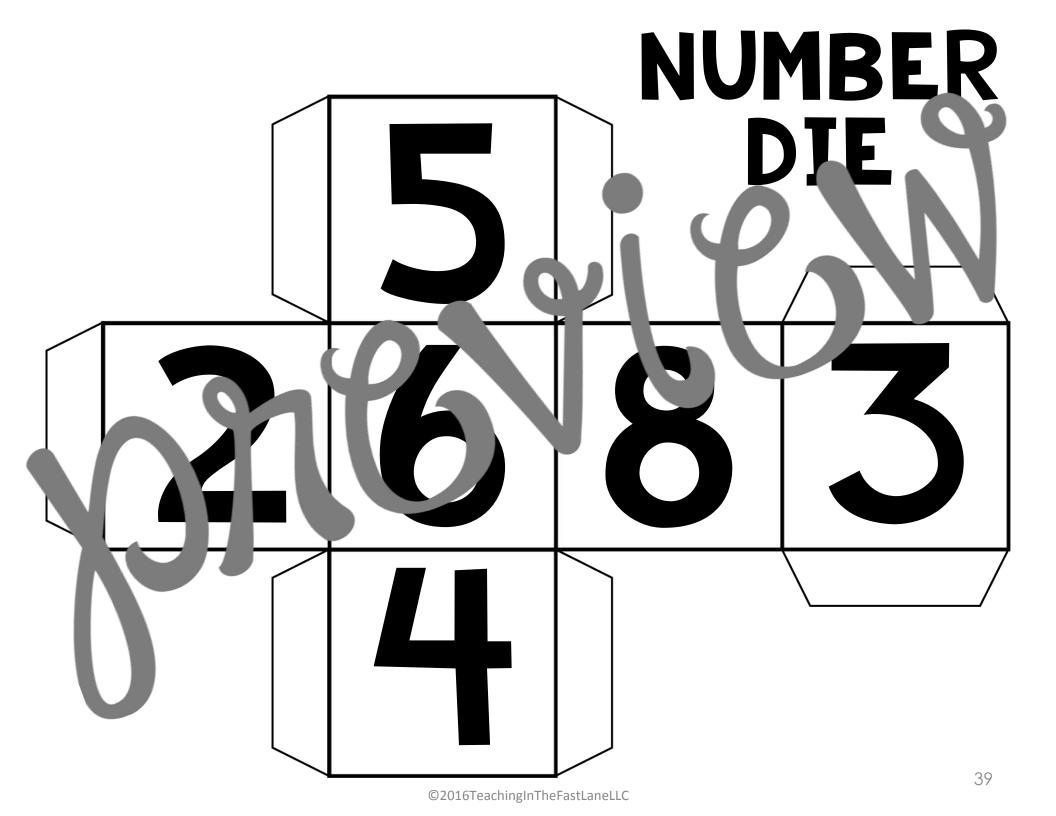
Inc ided:

- Operation Die
- Number Die
- Recording Sheet with Blank Tables

Not Included:

- Pencil
- Answer Key





Name

Date

ROLL A RULE RESPONSE SHEET

Roll the dice to determine the X and Y rule to complete the tables.

INPUT	OUTPUT

X rule: Yr/.e.

7UT	O PI

X rule: _____ Y rule: ____

INPUT	OUTPUT

INPUT	OUTPUT

X rule: _____ Y rule: _____

INI	OUTPU'
	9
(rule:	

Y rule: _____

INPUT	OUTPUT

X rule: _____ Y rule: _____

N, JT	'TPU
Y rule:	

Y rule: _____

INPUT	OUTPUT

X rule: _____ Y rule: ___



the spinners to create a rumerical pattern, and record at east 4 numbers in the pattern.

TEACHER SUGGESTIONS SPIN A PATTERN

- In this activity students a casked to use the spinners of create a numerical pattern and record at east of run ber in he pattern.

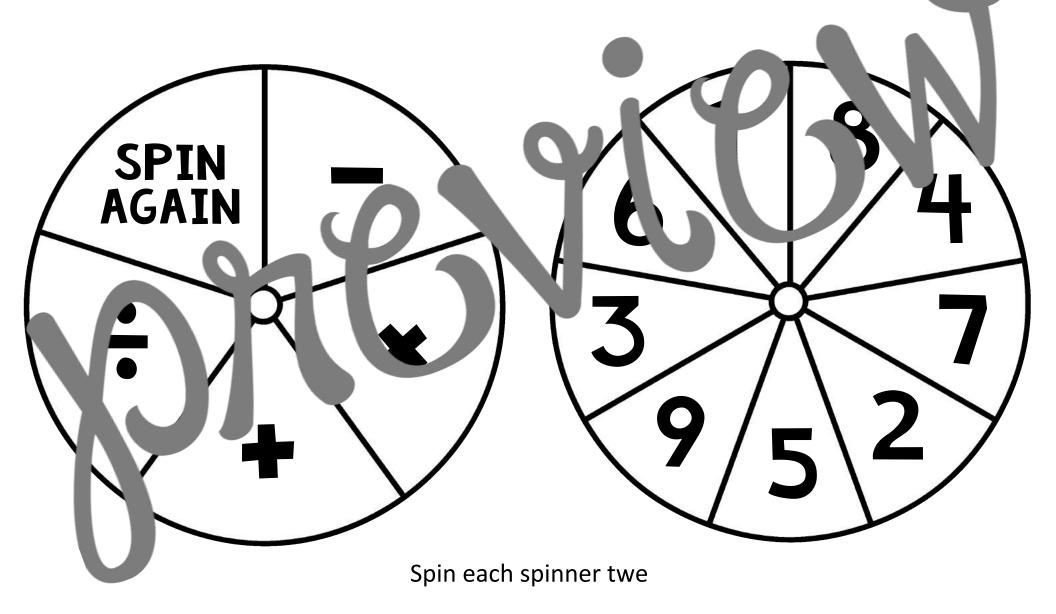
 This activity an he used in a varie of ways:
 - nail group with teacher guidance
 - A partner activity for practice
 - Independently to assess

Mater s

Inc ided:

- Spiriters
- Recording Sheet
 Not Included:
- Pencil
- Paper Clip
- Answer Key

SPIN A PATTERN



Name

#

Date____

SPIN A PATTERN RESPONSE SHEET

Create a number pattern based on the rule that you spin. While sure that your pattern has at least four numbers in it.

1 EXAMPLE: Spin +4 5,9,13,17	2	
4	5	6
		9
10	11	12



rules, and then graph at least three ordered pairs.

TEACHER SUGGESTIONS PICK A GARD

- In this activity students a casked to draw carch to identify the X chall Yrues, and the part at least the earlier of denied bairs.
 his activity an he used in a varier of ways:
 - nail group with teacher guidance
 - A partner activity for practice
 - Independently to assess

Mater s

Inc ided:

- X Kulu Cards
- Y Rule Cards
- Recording Sheet
 Not Included:
- Pencil
- Answer Key

XI	RULE
	+2

-2

E X RULE X RULE X RULE

X RULE X RULE X RULE -1

JLE X RULE X RULE X RULE 4

+2

Y RULE Y RULE Y RULE Y RU

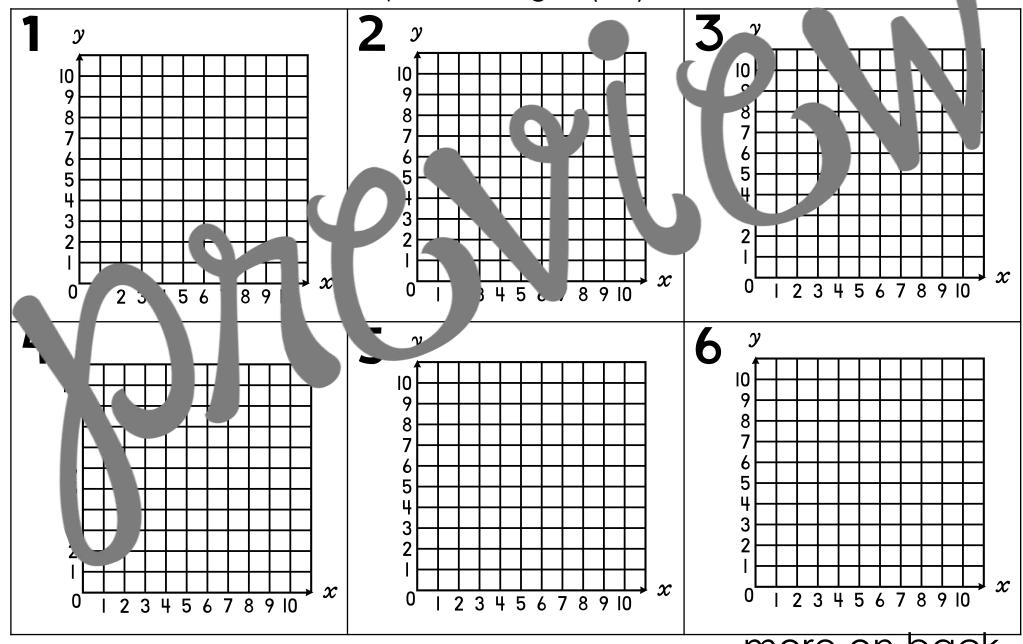
Y RULE YULL

ILE Y RULE Y RULE Y RULE

-5 +6 -6

PICK A CARD RESPONSE SHEET

Draw cards to determine the rules for X and Y then graph at least 3 pairs starting at (0,0).



Name

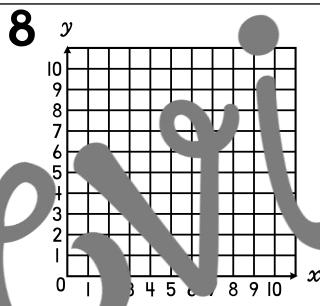
#

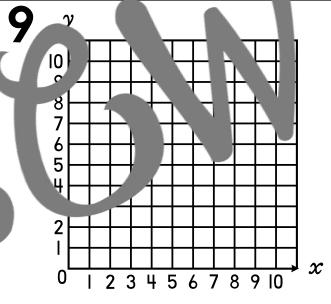
Date_____

PICK A CARD RESPONSE SHEET

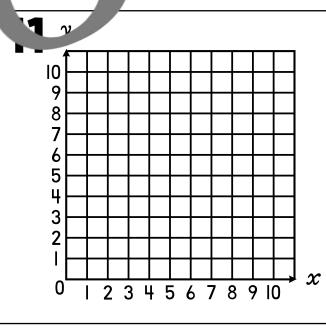
Draw cards to determine the rules for X and Y then graph at least 3 pairs starting at (0,0).

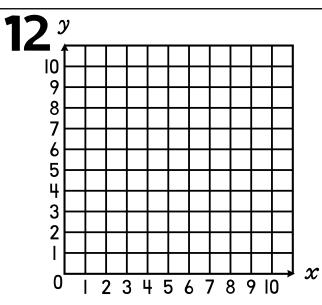
7 y
10 9
8 7
6 5
4 3
2 1 2 3 5 6 8 9 x

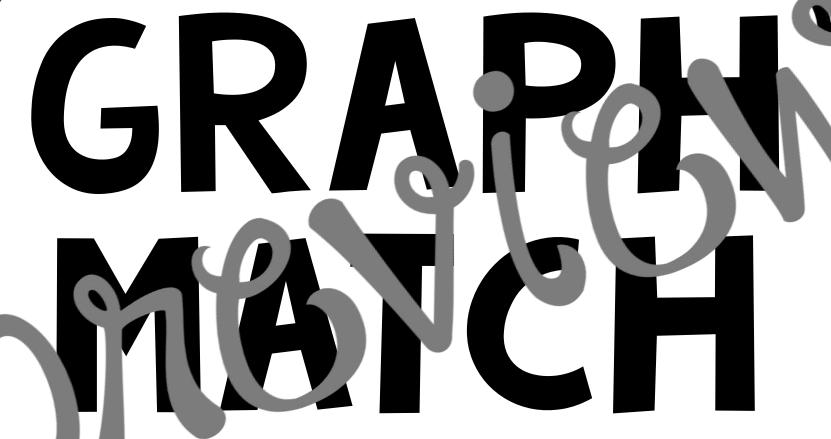




0 1 2 3 4 5 6 7 8 9 10 x







Match each graph to the table hat shows the same numerical pattern.

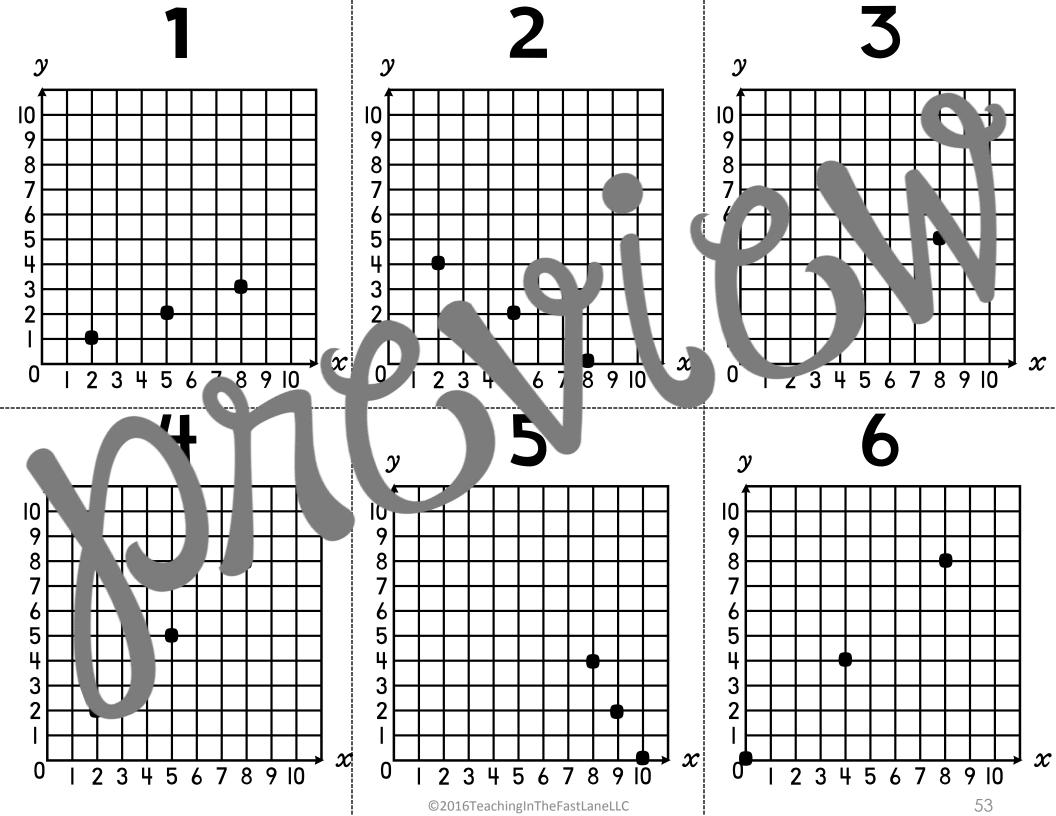
TEACHER SUGGESTIONS GRAPH MATCH

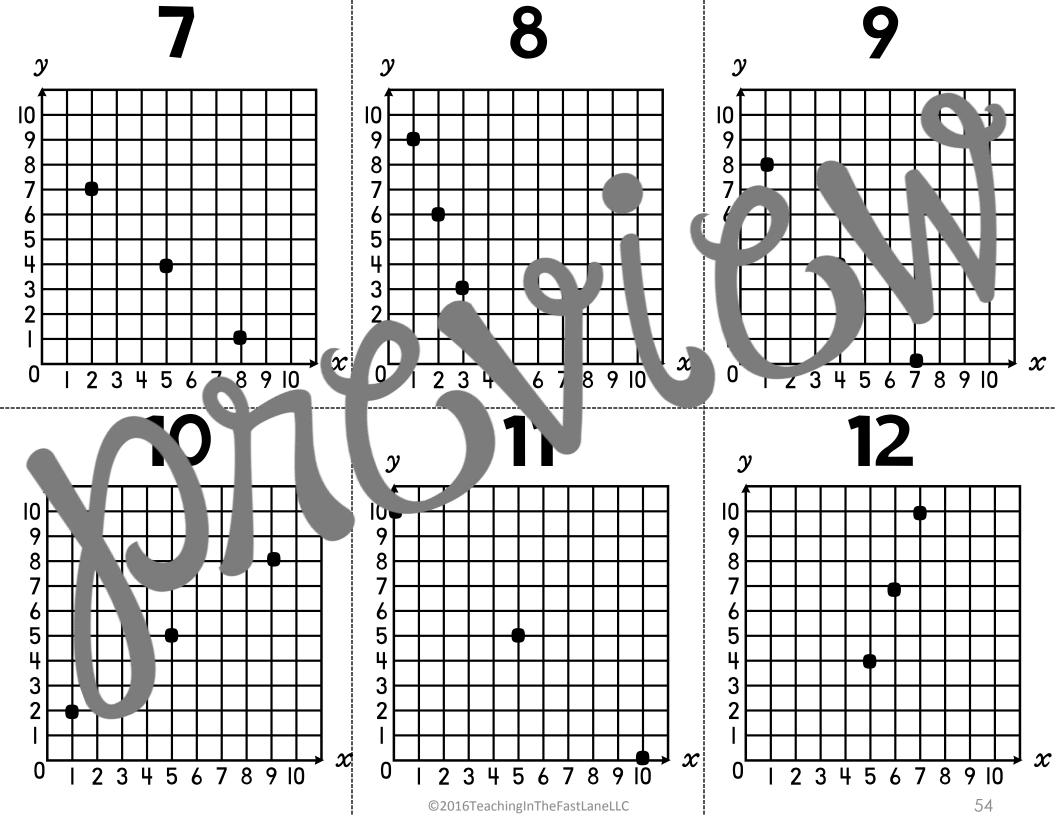
- In this activity students a casked to match each table to the graph that shows the same numerical patient.
- This activity can be used in a varie / cf w vs.
 - ✓ Sr a group with teacher Jidance
 - A partner activity for practice
 - ✓ Independently to assess

Mater s

Inc ided:

- Graph Cards
- Table Cards
- Recording Sheet
- Answer Key
 Not Included:
 - Pencil





C

Χ	Υ
2	1
5	2
8	3

E

X	Y
2	4
5	O?
	0

I

X	Y
0	1
	3
8	5

B

2	2
5	5
8	8

Χ	Υ
8	4
9	2
10	0

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F

X	Y
0	0
4	4
8	8

A

X	Y
2	7
5	4
8	1

K

Χ	Υ
1	9
2	
	3

1 8	
4	
7 0	

H

Y	
	2
5	5
	8

G

Χ	Υ
0	10
5	5
10	0

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X	Υ
5	4
6	7
7	10

Name _____ #___ Date____

GRAPH MATCH RESPONSE SHEET

Match each graph to the table with the corresponding of the pairs.

	pulls.	
1	2	30
4		6
		9
10	11	12

GRAPH MATCH ANSWER KEY.

	251	
	8K	9 D
ROH	11G	121

IDENTIFY THE STATE OF THE STATE

graph and record.

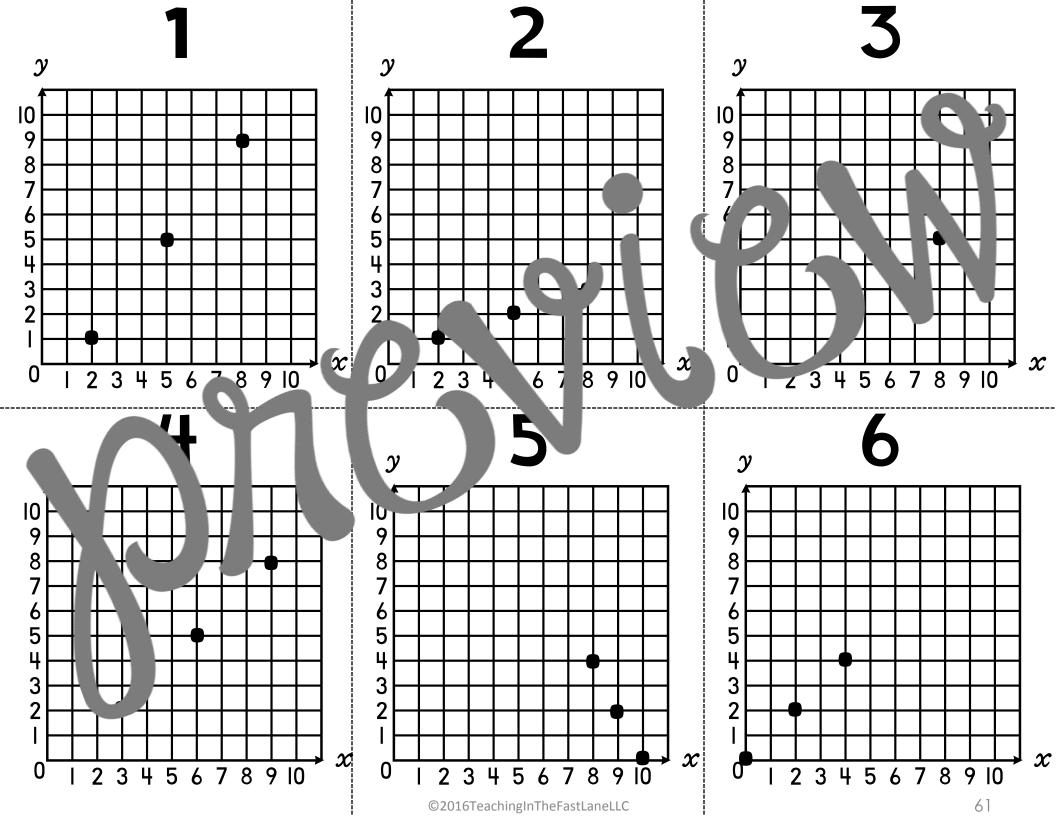
TEACHER SUGGESTIONS IDENTIFY THE RULE

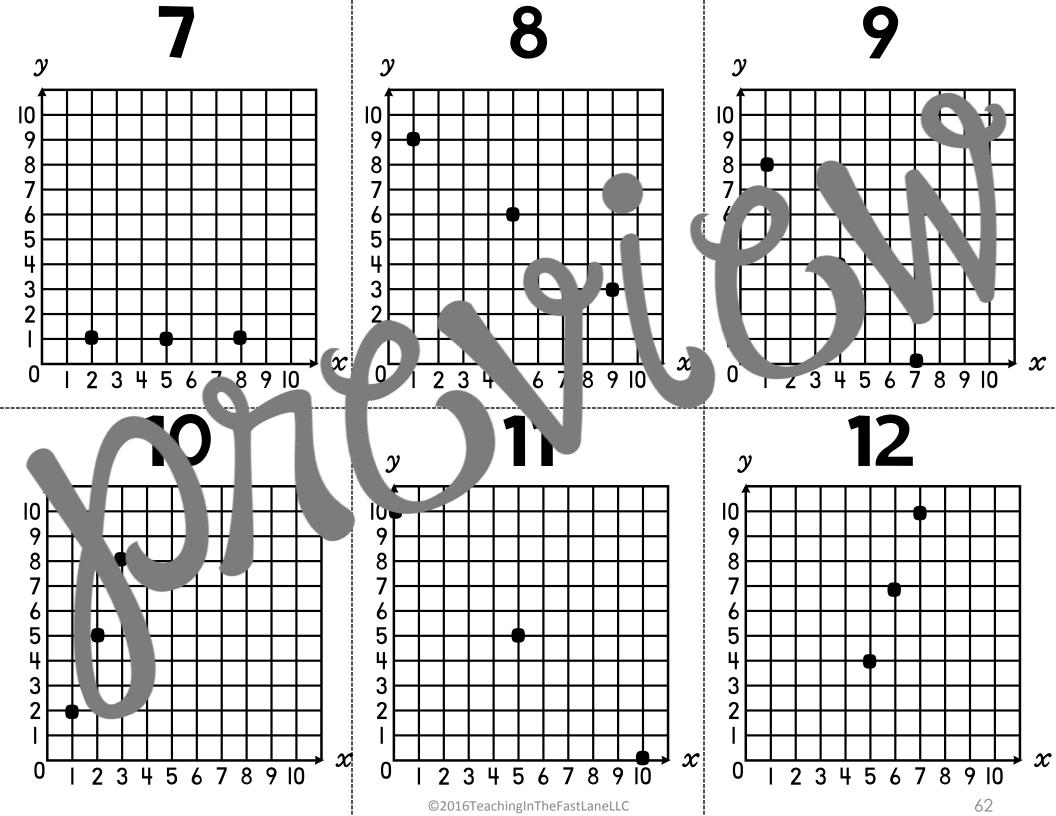
- In this activity students a casked to identify the rules or X and Y on the graph.
- This activity act be see in a rankly of ways
 - ✓ Shall gropy the tracher gldnce
 - petner activity for practice
 - Independently to assess

<u>Mater</u> s

Inc ided:

- Graph Cards
- Recording Sheet
- Answer Key
 Not Included:
- Pencil





Name _____

#

Date____

IDENTIFY THE RULE RESPONSE SHEET

Identify the rule for X and Y and record.

•		
1 X Rule:	2 X Rule:	3 RUL:
Y Rule:	Y Rule:	A REEL
4 X Rule:	X Rc'e:	X Rule:
Y Pule:	Yn Jle	Y Rule:
Rule	X Rule:	X Rule:
	Y Rule:	Y Rule:
10	11	12
X R Jle:	X Rule:	X Rule:
Y Rule:	Y Rule:	Y Rule:

IDENTIFY THE RULE ANSWER KEY

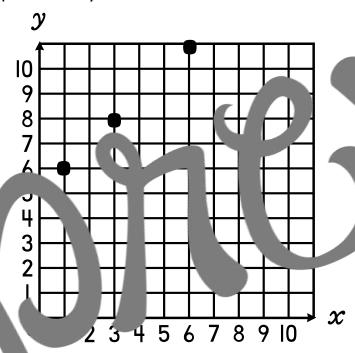
1 X Rule: +3 Y Rule: +4	2 X Rule: +3 Y Rule: +1	3 x Run:: Y Rttle: +2
4 X Rule: +3 Y Pule: •3	X Rcle: -1 Y i lle 2	6 X Rule: +2 Y Rule: +2
Rule + 3	X Rule: +4 Y Rule: -3	9 X Rule: +3 Y Rule: -4
10 \(\text{R le: +1} \) \(\text{Y Rule: +3} \)	11 X Rule: +5 Y Rule: -5	12 X Rule: +1 Y Rule: +3

Name

Date

TEST BRIDGE QUESTIONS

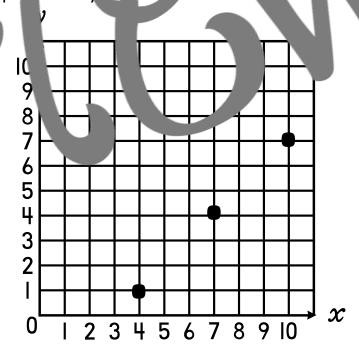
1. The ordered pairs for the points on the coordinate plane satisfy the equation y=x+5



Wł ch\ rdered pair could also satisfy thi equ tion?

- a. (6,9) b. (11,15)
- c. (11,16) d. (15,11)

2. The ordered pairs for e points on the pordinat pane isfy equation =x 3



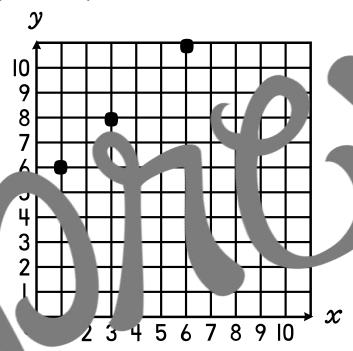
Which ordered pair could also satisfy this equation?

- a. (12,9) b. (4,7)

- c. (11,9) d. (15,11)

TEST BRIDGE ANSWER KEEP

1. The ordered pairs for the points on the coordinate plane satisfy the equation y=x+5

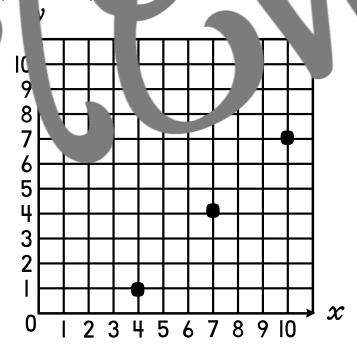


Which idered pair could also satisfy this equation?

b. (11,15)

2. The ordered pairs for a points on the pordinat plane tisfy equation y = x 3

3.



Which ordered pair could also satisfy this equation?

b. (4,7)

d. (15,11)

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