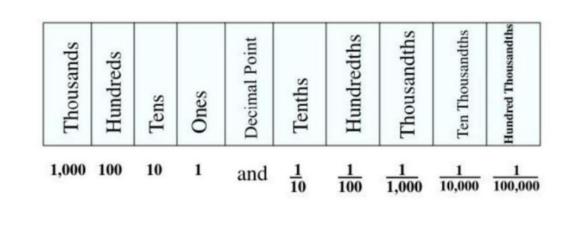
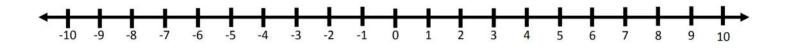


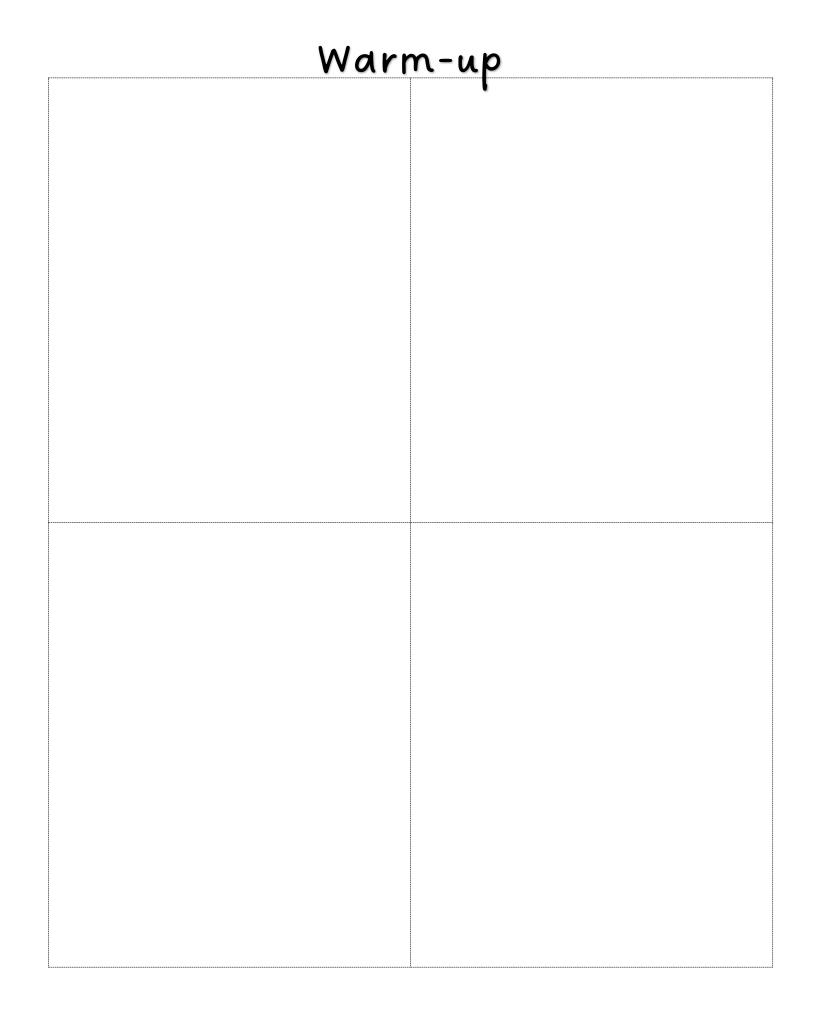
#### **MULTIPLICATION CHART TO 10X10**

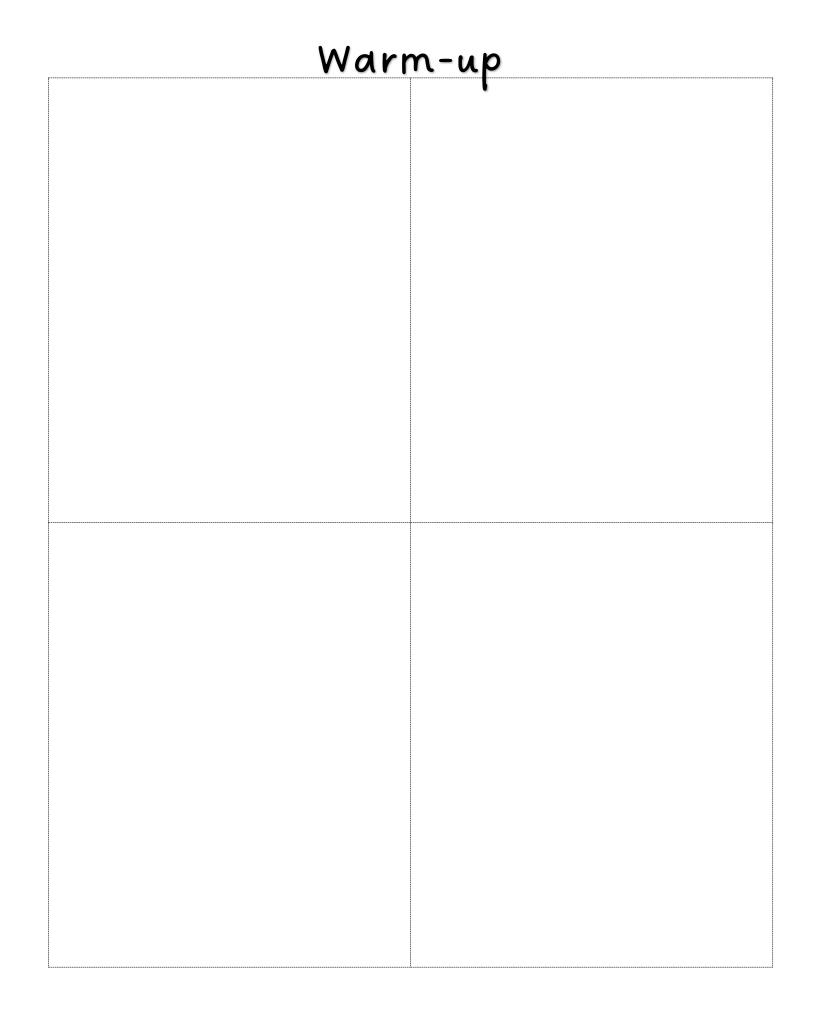
x	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

F	D	Р
		10%
		12.5%
		20%
		25%
		33.3%
		50%
		100%









# Think Along Plan Recording Sheet

#	#
Analyze:	Analyze:
Plan:	Plan:
Solue:	Solve:
Answer	Answer
#	#
Analyze:	Analyze:
Plan:	Plan:
Solue:	Solve:
Answer	Answer

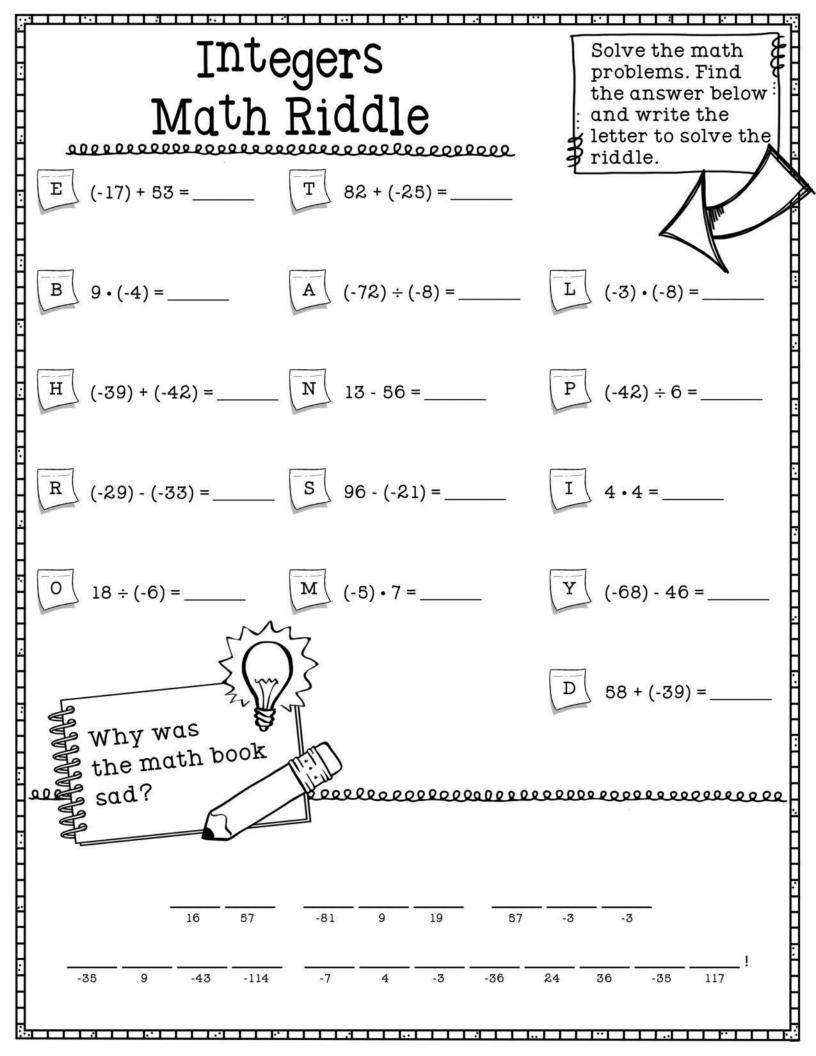
# Think Along Plan Recording Sheet

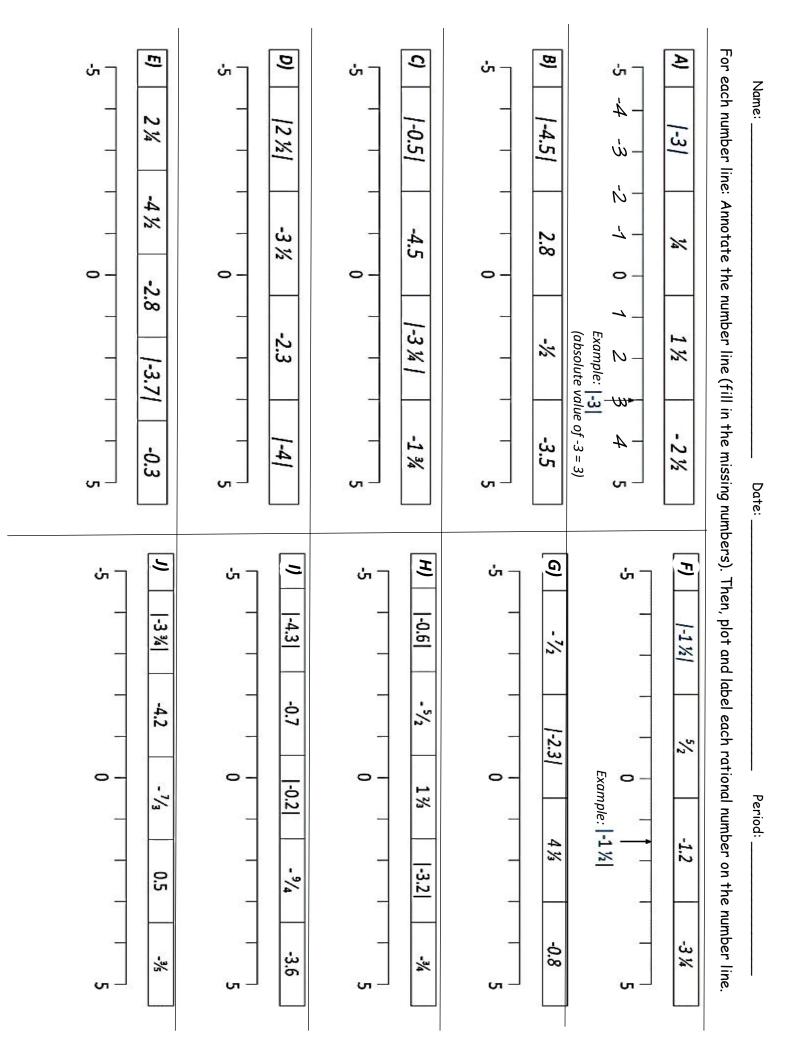
#	#
Analyze:	Analyze:
Plan:	Plan:
Solue:	Solve:
Answer	Answer
#	#
Analyze:	Analyze:
Plan:	Plan:
Solue:	Solve:
Answer	Answer

# **Fraction-Decimal-Percent**

Conversion Chart

	Name		
Decimal	Fraction	Percent	
		18%	
		28%	
		78%	
		96%	
		50%	
	3/10		
	<sup>3</sup> / <sub>10</sub> <sup>2</sup> / <sub>5</sub>		
	۱/ <sub>4</sub>		
	11/20		
	۱/ <sub>5</sub>		
0.35			
0.75			
0.8			
0.04			
0.65			





Name:	d Inequalities	Period:		
<b>#1-8: Solve the equation, showing each step to justify your answer. Graph the solution on a number line.</b> 1. w - 21 = 14 2. $\frac{r}{-4} = 14$ 3. y ÷ 8 = -2 4. 3d = 57				
5. –8 + x = 17	6. n – 15 = 33	7. 130 = 42 + p	8. x ● (−5) = 60	

**#9-10:** Write an equation that represents the verbal description. Solve, showing steps to justify your answer. Graph the solution on a number line.

9. The length of a room is 7 feet longer than the width. The width of the room is 74 feet. Find the length of the room.

10. Humza bought a used cell phone from Derf for \$465 less than its retail price. He paid a total of \$100 for the cell phone. What was the retail price of the cell phone?

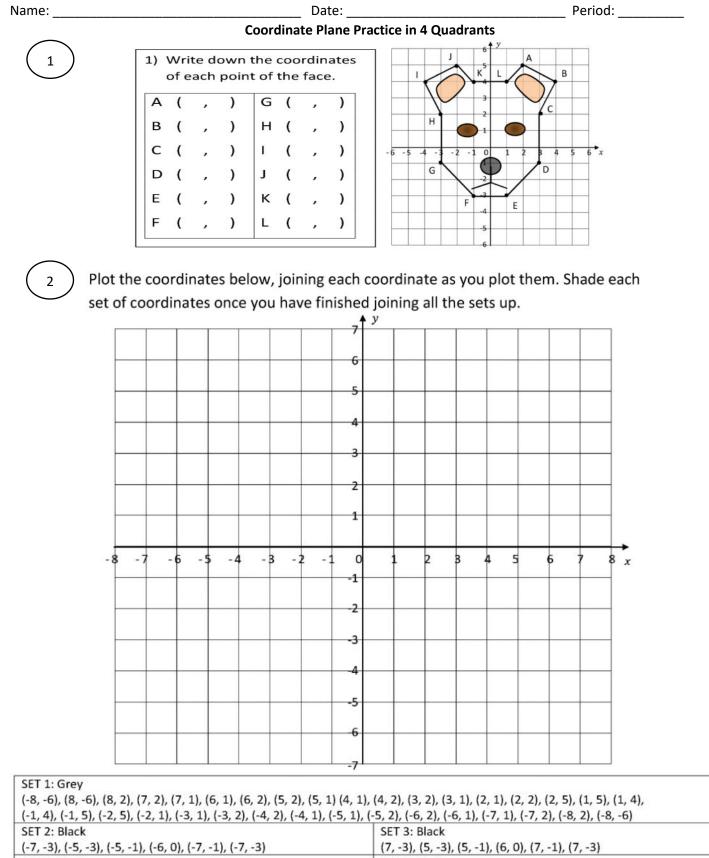
#11-18: Solve the inequality, showing each step to justify your answer. Graph the solution on a number line.					
11. 7 <u>&lt;</u> x + 11	12. 2a > 88	13. t – 3 < 12	14. –9n <u>&lt;</u> 117		
15. $\frac{b}{6} \ge \frac{1}{6}$	16. $\frac{x}{2} < -4$	17. w + 1 > -12	18. a − 13 <u>&lt;</u> −24		

#19-21: Write an inequality that represents the verbal description. Solve, showing steps to justify your answer. Graph the solution on a number line.

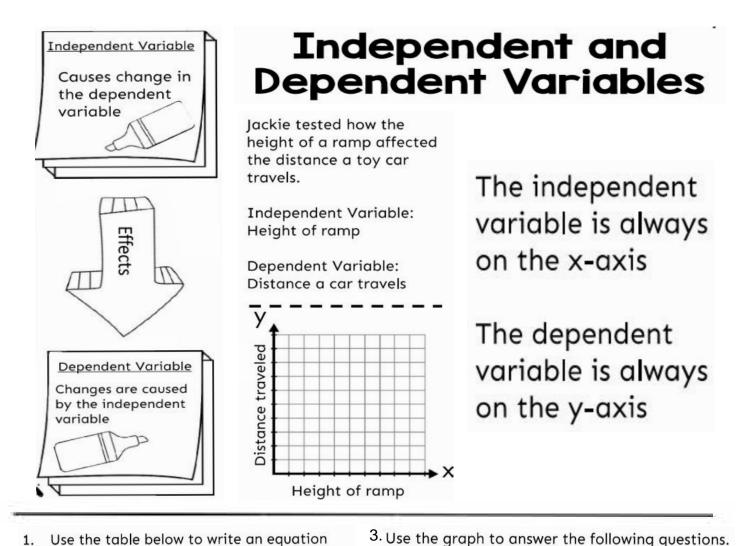
19. Ecila wants to buy a pet toad but she left her wallet at home. Derf gives her \$20 and now she can afford the toad. What inequality describes the cost of the toad, *t*?

20. The area *a* of a science classroom, minus the 10 square feet for the teacher's desk, should be at least 462 square feet.

21. The maximum number of students *s* that can be on a school bus is three per seat. If the bus has 72 seats, how many students may be on the bus?



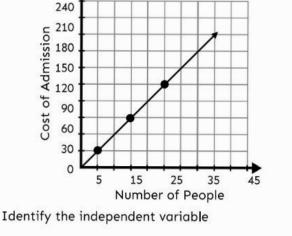
(-7, -3), (-5, -3), (-5, -1), (-6, 0), (-7, -1), (-7, -3)	(7, -3), (5, -3), (5, -1), (6, 0), (7, -1), (7, -3)
SET 4: Black	SET 5: Black
(-3, 0), (-3, -3), (-2, -3), (-2, 0), (-3, 0)	(3, 0), (3, -3), (2, -3), (2, 0), (3, 0)
SET 6: Black	SET 7: Brown
(-1, 1), (1, 1), (1, 2), (0, 3), (-1, 2), (-1, 1)	(-1, -6), (1, -6), (1, -4), (0, -3), (-1, -4), (-1, -6)
Set 8: Use any design	Set 9: Black
(-8, 2), (-8, 7), (-4, 7), (-5, 6), (-4, 5), (-8, 5)	(-2, -6), (2, -6), (2, -4), (0, -2), (-2, -4), (-2, -6)



1. Use the table below to write an equation that shows the relationship between the independent and dependent variables.

×	3	4	5	6	7
у	6	7	8	9	10

2. Brian conducted an experiment to test how different types of paper affected the distance a paper airplane traveled. Identify the independent and dependent variables.



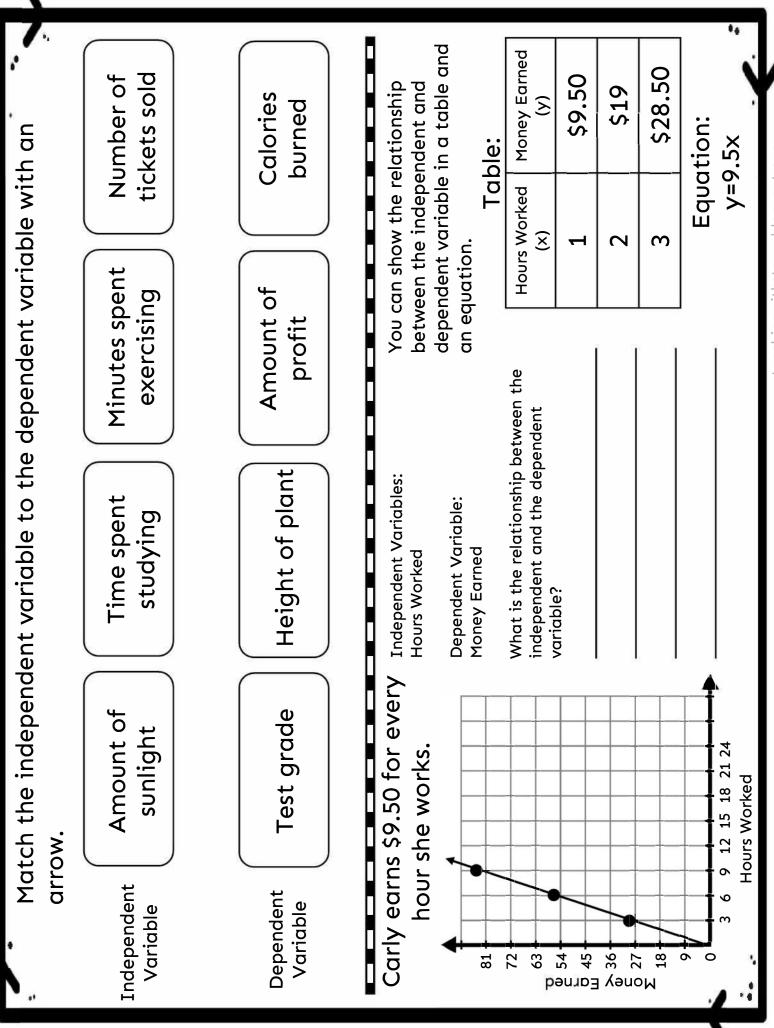
Museum Ticket Sales

Independent Variable:

Identify the dependent variable

Describe the relationship between the independent and dependent variables.

Dependent Variable:



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Name:	
-------	--

Period: \_

#### It depends... or does it?

For each of the following examples, identify the independent and dependent variables. Remember: there may be more than just two variables in an experiment, but a good experiment will be measuring how input affects output.

#### INPUT \* INDEPENDENT \* X \* CAUSE \* START \* INTENTIONAL CHANGE OUTPUT \* DEPENDENT \* Y \* EFFECT \* RESULT \* OBSERVED CHANGE

#### **Experiment 1**

Spider-Man and Ned were testing the distance he could shoot his web depending on the angle at which he points his web shooter. He tested this 3 times at each angle.

<b>0°:</b> 18.2m, 16.7m, and 17.9m	<b>45°:</b> 79.6m, 74.3m, and 76.2m	<b>75°:</b> 62.4m, 61.5m, and 62.7m
Independent variable:		
Dependent variable:		

#### Experiment #2

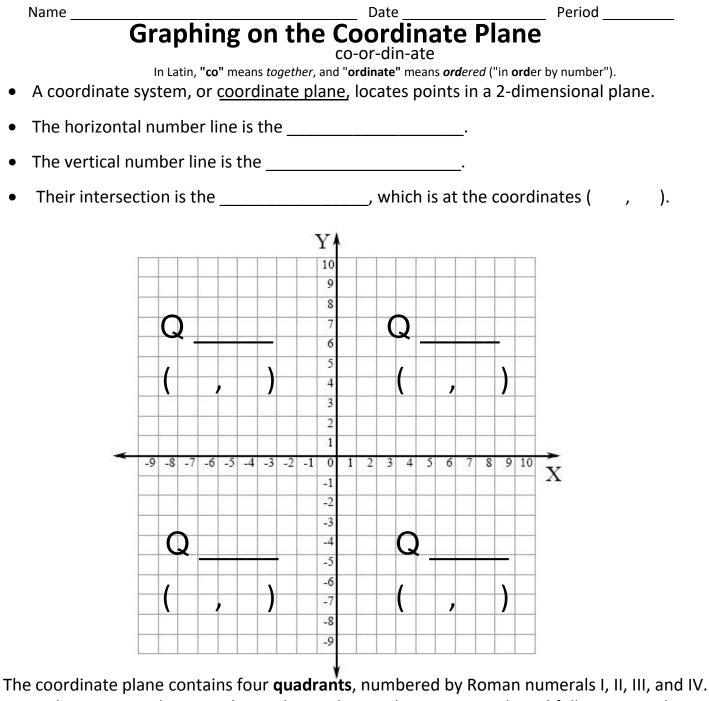
Neville (ahem - Professor Longbottom) grew snake plants in the greenhouses at various temperatures. The height of each plant was measured after one month of growth. (Professor Longbottom later repeated this experiment 3 times during the school year.)

The first time, he recorded this data.	4°C: 4 cm 16°C: 18 cm	8°C: 10 cm 20°C: 24 cm	12°C: 14 cm 24°C: 12 cm
Independent variable:			
Dependent variable:			
<b>Experiment #3</b> Dory and Nemo were counting the num anemones. They counted the fish once of the data, of course. Dory just kept of	e every week for th	nree weeks. Nemo hel	
<b>Orange</b> : 17, 20, and 23 fish <b>Pu</b>	r <b>ple</b> : 18, 21, and 24	4 fish White: 23,	26, and 30 fish
Independent variable:			
Dependent variable:			

#### Experiment 4:

Bruno Mars wondered if the day of the week impacted how many fans attended his concerts. He performed his concert on a Tuesday, Friday, and Saturday in Chicago.

Tuesday: 28,117 fans	Friday: 32,586 fans	Saturday: 31,794 fans
Independent variable:		
Dependent variable:		



Q 1 is the FIRST guadrant you learn about. The guadrants are numbered following a C shape.

Any point can be identified within one of the four guadrants in the coordinate plane using a specific **ordered pair** of numbers, called its Each point is defined on the coordinate plane by one (and only one) ordered pair. (X, Y)

- The first number in an ordered pair is the \_\_\_\_\_ coordinate.
- The second number is the coodinate.

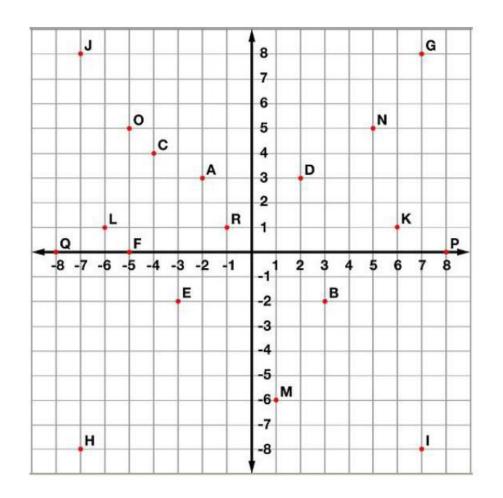
Example: (3,2) 3 is the x-coordinate, and 2 is the y-coordinate.

To graph a point: "RUN TO THE ELEVATOR!"

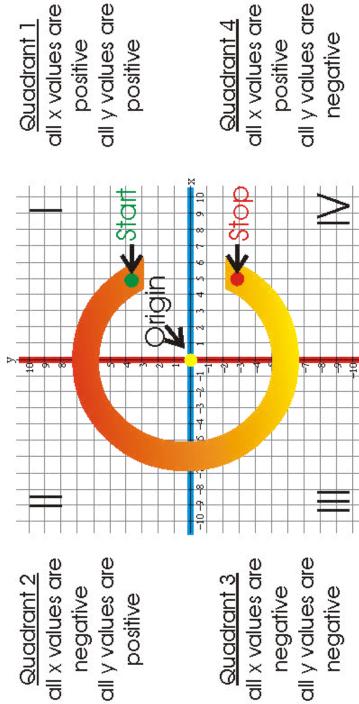
Start at the origin. Move on the x-axis first, left or right; then move on the y-axis, up or down.

NAME	DATE	PERIOD		
Tell what point is located at each ordered pair.				
1. (3 , -2)	2. (2,3)	3. (-5 , 5)		
4. (-7 , -8)	5. (-4 , 4)	6. (-5 , 0)		
Write the ordered pair for ea	ich given point.			
7. E	8. M	9. P		
10. G	11. Q	12. N		
Plot the following points on t	the coordinate grid.			
13. S (-6,-3)	14. T (2,-4)	15. U (5,8)		
Identify the quadrant containing each point.				

16. B	17. J	18. I	19. D	<b>20.</b> E
TO. D	1/. J	TO' I	IJ. D	20. L







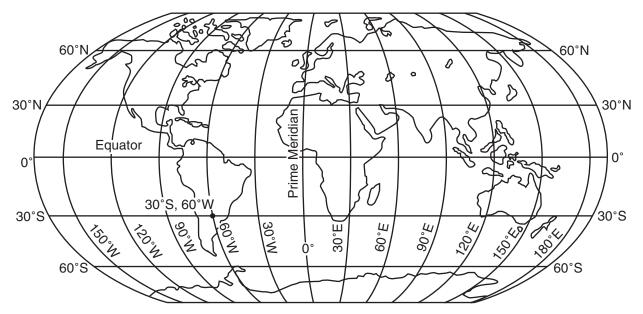
NAME	DATE PERIOD
<b>Practice: Word Problems</b> <i>The Coordinate Plane</i> For Exercises 1–4, use the coordinate plane at the right. It shows a map of the rooms in a middle school.	Art Library Library Library -5-4-3-2 Science Math -5 Exit Entrance Entrance Special Services English Counselor History -5-4-3-2 English Music
<ol> <li>Thalia is in the room located at (-2, 1). What room is she in? Describe in words how to get from the origin to this point.</li> </ol>	2. Thalia's next class is 8 units to the right and 5 units down on the map from where she is now. In what room is Thalia's next class? Find the ordered pair that represents the location of that room.
<b>3.</b> Tyrone is in the Art room, but his next class is in the History room. Give Tyrone directions on how to get to the History room.	4. On the map, which classrooms are located in the third quadrant? Describe the coordinates of all points in the third quadrant.
<b>5.</b> NEIGHBORHOOD Delsin made a map of his neighborhood in such a way that each intersection is a point on a coordinate plane. Right now, Delsin stands at point $(-4, -3)$ . Give the ordered pair of where he will be if moves 5 units to the right and 7 units up on the map.	6. NEIGHBORHOOD Refer to Exercise 5. In which quadrant is Delsin when he is done walking? Describe this quadrant.

# **Enrichment**

#### Latitude and Longitude

This world map shows some of the latitude and longitude lines. Latitude is measured in degrees north and south of the equator. Longitude is measured in degrees east and west of the prime meridian, a line passing through Greenwich, England. (Greenwich is a suburb of London.)

The latitude is usually given first. For example, the location of 30°S, 60°W is lower South America.



#### Name a place near each location. Use an atlas or other reference source to check your answers.

<b>1.</b> 30°N, 30°W	<b>2.</b> 30°S, 30°E	<b>3.</b> 60°N, 120°W
<b>4.</b> 15°N, 150°W	<b>5.</b> 30°S, 140°E	<b>6.</b> 25°N, 100°W
<b>7.</b> 40°N, 120°W	<b>8.</b> 45°N, 90°W	<b>9.</b> 40°N, 5°W
<b>10.</b> 60°N, 45°W	<b>11.</b> 35°N, 140°E	<b>12.</b> 0°, 60°E

Х	У
1	4
2	8
3	12
4	16

Х	У
1	3
2	6
3	9
4	12

х	У
1	2
2	4
3	6
4	8

Х	У
1	3
2	4
3	5
4	6

х	У
1	5
2	6
3	7
4	8

Х	У
1	6
2	7
3	8
4	9

$$y = 2x$$

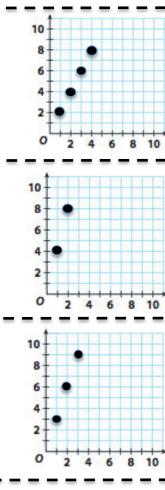
$$y = 4x$$

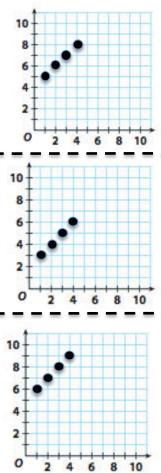
$$y = 3x$$

$$y = x + 4$$

$$y = x + 5$$

$$y = x + 2$$





	Name	Period	
--	------	--------	--

1. Fred's family already has four dogs. They adopt more dogs. Find the table, equation and graph that show the relationship between the adopted dogs and the total number of dogs in Fred's family.

Table	Equation	Graph
-------	----------	-------

2. Every state has two U.S. senators. The number of electoral votes a state has is equal to the total number of U.S. senators and U.S. representatives. Find the table, equation and graph that show the relationship between the number of representatives and the number of electoral votes.

Additive or multiplicative? \_\_\_\_\_

#### Table

Equation

Graph

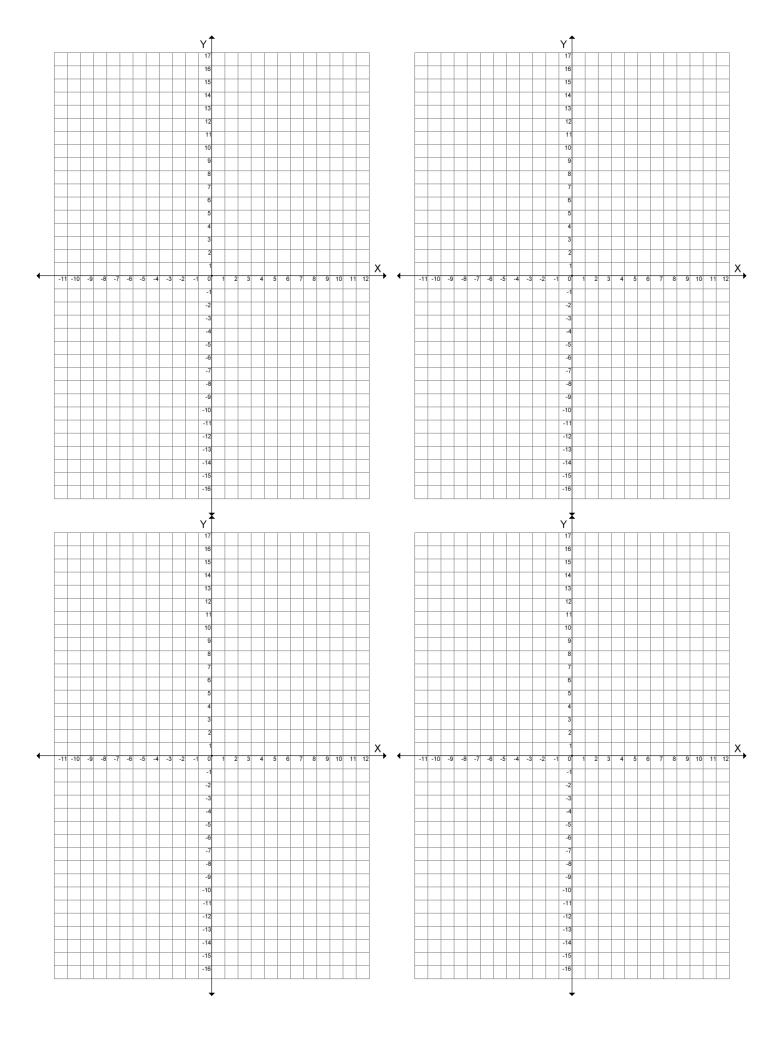
3. Jolene is packing her lunch for school. The empty lunch box weighs five ounces. Find the table, equation, and graph that show the relationship between the weight of the items in Jolene's lunch and the total weight of the packed lunch box.

Additive or multiplicative? \_\_\_\_

Table

Equation

Graph



4. Frannie orders three DVDs per month from her DVD club. Find the table, equation and graph that show the relationship between the number of months and the total number of DVDs Frannie has.

Additive or multiplicative? \_\_\_\_

Table

Equation

Graph

5. Ollie sells bracelets for two dollars each and donates the money he collects to a charity. Find the table, equation, and graph that show the relationship between the number of bracelets sold and the total donation Ollie makes.

Additive or multiplicative? \_

#### Table

Equation

Graph

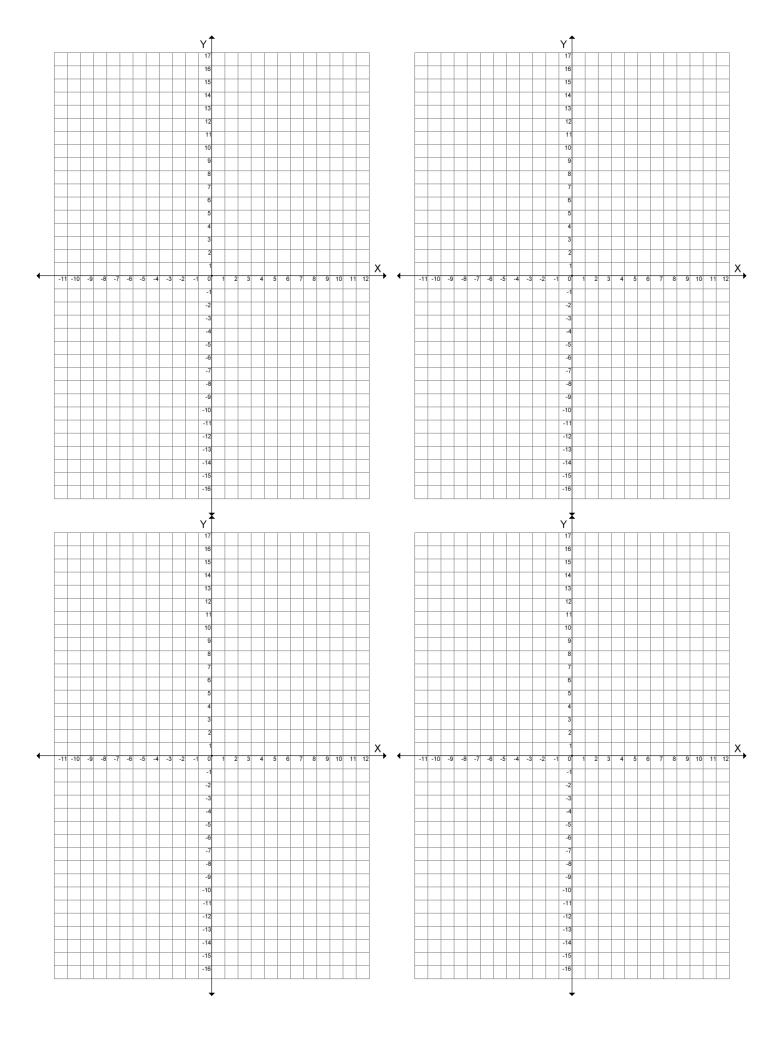
6. Frank's karate class meets four days every week. Find the table, equation, and graph that show the relationship between the number of weeks and the total number of karate classes.

Additive or multiplicative? \_\_\_\_\_

Table

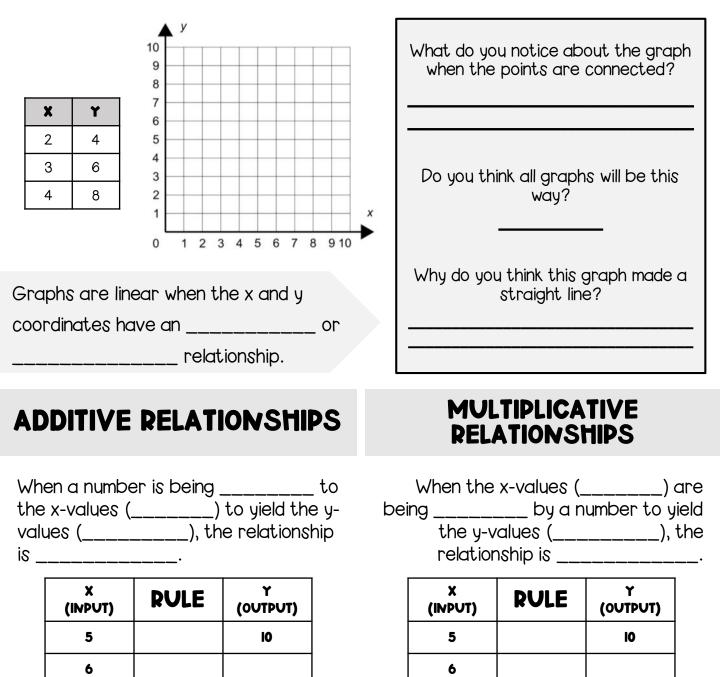
Equation

Graph



# ADDITIVE VS. MULTIPLICATIVE RELATIONSHIPS NOTES AND PRACTICE

Use the table below to graph the data on the coordinate plane and connect the ordered pairs.



7

7

### ADDITIVE RELATIONSHIPS

## MULTIPLICATIVE RELATIONSHIPS

Additive relationships are described using the equation:

Multiplicative relationships are described using the equation:

a represents the number being

a represents the number you will

\_\_\_\_ by.



Write an equation using the tables below. Then, indicate whether each table represents an additive or a multiplicative relationship.

I.	x	۲		
	0	0	EQUATION:	ADDITIVE OR MULTIPLICATIVE:
	I	5		
	2	IO		
	3	15		

2.	# OF HOTDOGS	\$ EARNED		EQUATION:		ADDITIVE OR MULTIPLICATIVE:
	2	6				
	4	8				
	6	10				
	8	12				
						EQUATION
3.	INPUT	I	2	4	5	
	OUTPUT	2.5	3.5	5.5	6.5	ADDITIVE OR MULTIPLICATIVE

Comparing Mileage	lring	MILQO	<u> 1</u> 00		Name:
<b>POCKet</b>					GLIMMOR
Car Lover magazine is reporting that the new 2014 Rocket is the most fuel-efficient car on the market! Test drives have	jazine is repo -efficient ca	orting that r on the m	the new 2 arketl Test	014 Rocket is drives have	The Glimmer is still in testing, but the first reports have told us that drivers were able to drive 484 miles on the
shown that the Rocket gets up to 26 miles per highway.	e Rocket ge	ts up to 26	o miles per		eighteen-gallon fuel tank. What a deal!
cambria					Avenger
If you're looking for a new car, the Cambria is the for your buck. The table below shows data for te	g for a new c The table be	ar, the Ca low shows	mbria is th data for te	e best bang sst drives on	The newest model of the Avenger is still in testing, but the following page from a test drive was released recently.
une nignway: Gallons Used	Ю	Q	10	6	
Miles Driven	73.5	196	245	392	140
					Miles Driven 8 8 9 9 1 10 10 10 10 10 10 10 10 10 10 10 10 1
				6	60 +
					0 1 2 3 4 5 6 Gallons Used

# QUestions. Comparing Mileage

1. Which car gets the best gas mileage? How do you know?

2. Which car gets the lowest gas mileage? How do you know?

3. Rank the cars in order from best gas mileage to worst gas mileage.

# EX40NSIOn:

You are planning a 450 mile road trip. Gas costs \$3.20 a gallon. If all the cars have an eighteen gallon tank, how much money would you save filling up the most efficient car compared to the least efficient car? Create Your Own Story

Na	am	۱e
----	----	----

Date: \_\_\_\_\_ Period: \_\_\_\_\_

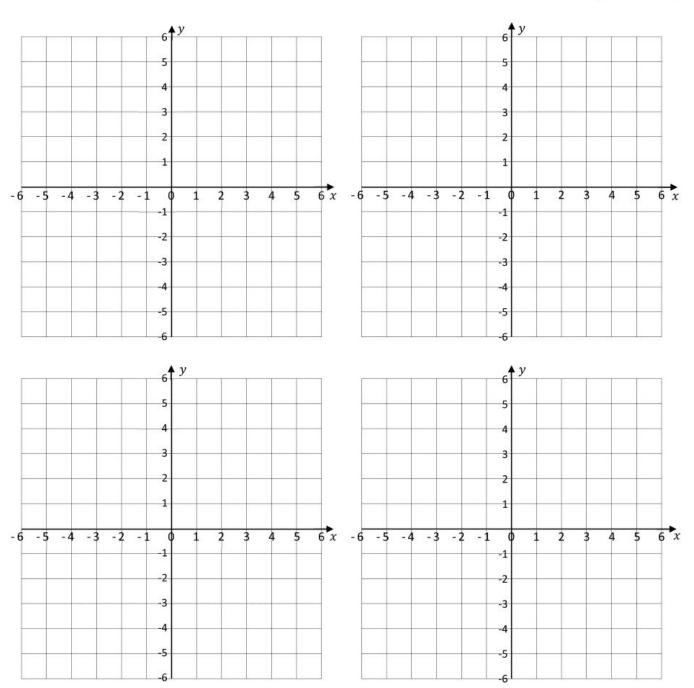
Story:	x	rule	у	(x,y)
Equation:				
Additive or multiplicative?				
In the story, the independent variable is				
In the story, the dependent variable is				
0				

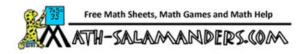
Name

Date

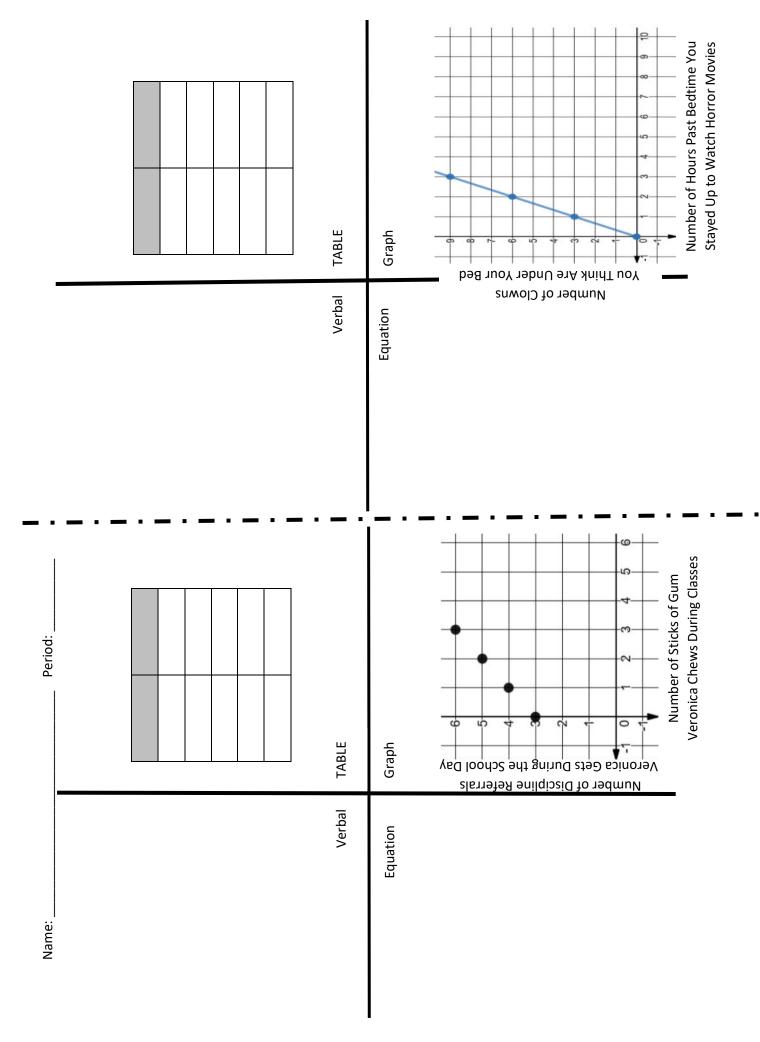
#### COORDINATE GRIDS

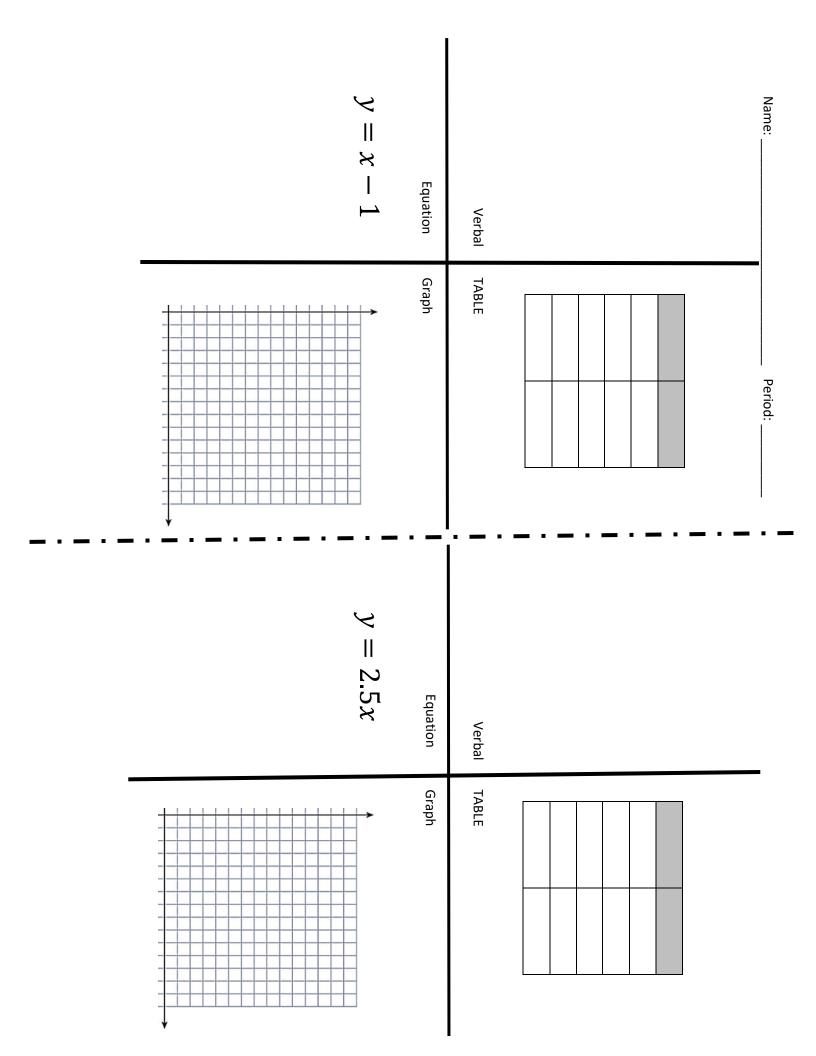






Equation	Lyn studies for his unit 8 exam for 2 hours each day. The total hours he has studied depends on the number of days. Verbal	Name:
Graph	TABLE	Period:
Equation	Syria has 3 boxes of Frooty Ringz cereal at home, and she buys some more at the store. The total number of boxes of Frooty Ringz Sarah will have when she gets home from the store depends on the number she buys. Verbal	
Graph	TABLE	





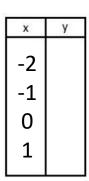
	× ×	1 5	3 15	4 20	7 35	9 45	TABLE	Graph	
	 				_		 Verbal	Equation	
Period:	×	2 2.5	3 3.5	5 5.5	8 8.5	10 10.5			
							Verbal TABLE	Equation Graph	<
Name:								ш	

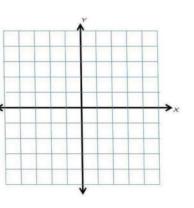
Name:\_\_\_\_\_

# Tables, Equations, & Graphs

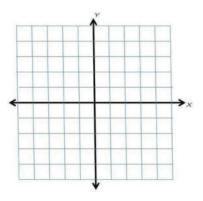
Complete the t-table for each equation. Plot the ordered pair on the coordinate plane and connect the points to make a line.

**1.** y = x + 2

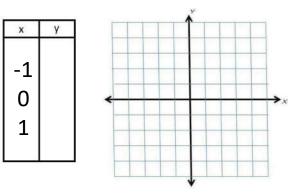




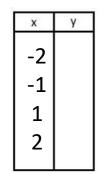
2. y = x - 2

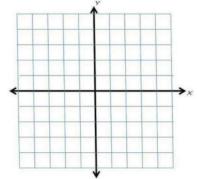


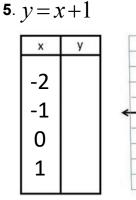
**3.** y = 4x

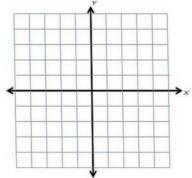


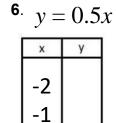






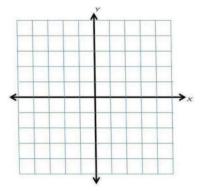






0

1



### **One-Step Equation Word Problems**

 Lisa is cooking muffins. The recipe calls for 7 cups of sugar. She has already put in 2 cups. How many more cups does she need to put in?

Na	ame_	
Na	ame	

Date Period

2) At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid \$13 then what was the total bill?

- 3) How many packages of diapers can you buy with \$40 if one package costs \$8?
- 4) Last Friday Trevon had \$29. Over the weekend he received some money for cleaning the attic. He now has \$41. How much money did he receive?

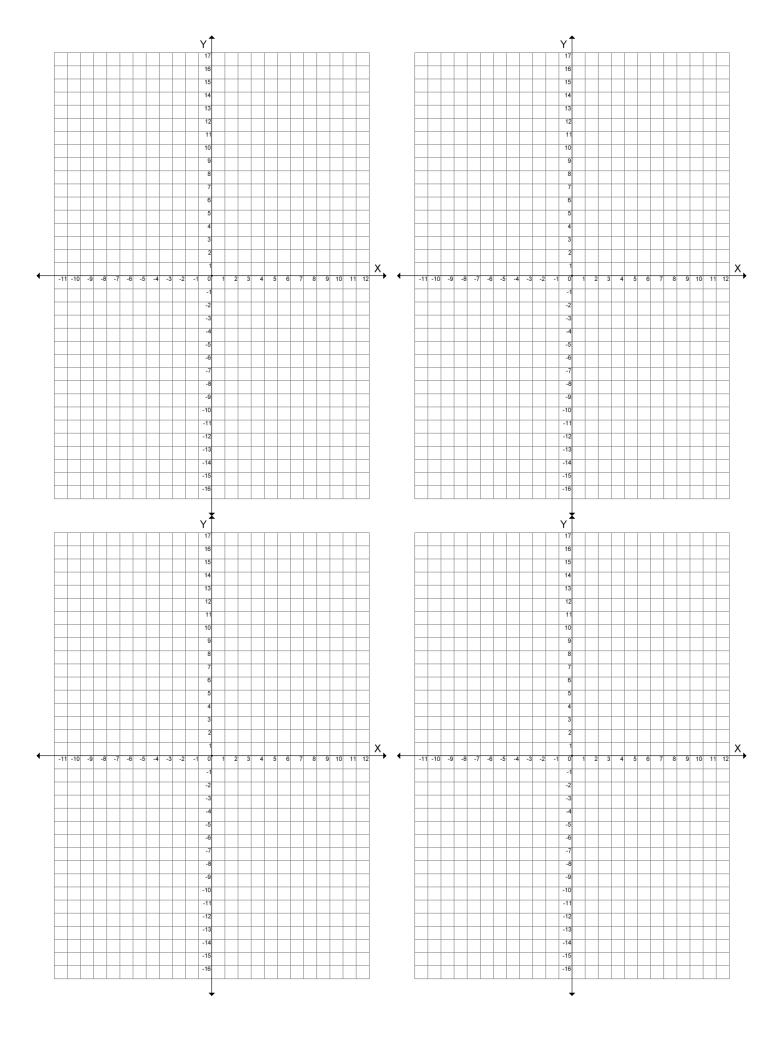
- 5) Last week Julia ran 30 miles more than Pranav. Julia ran 47 miles. How many miles did Pranav run?
- 6) How many boxes of envelopes can you buy with \$12 if one box costs \$3?

- 7) Amanda and her best friend found some money buried in a field. They split the money evenly, each getting \$24.28. How much money did they find?
- 8) Jenny wants to buy an MP3 player that costs \$30.98. How much change does she receive if she gives the cashier \$40?

- 9) Last Friday Adam had \$22.33. Over the weekend he received some money for cleaning the attic. He now has \$32. How much money did he receive?
- 10) After paying \$5.12 for a salad, Norachai has \$27.10. How much money did he have before buying the salad?

- 11) A recipe for cookies calls for  $3\frac{1}{4}$  cups of sugar. Amy has already put in  $3\frac{1}{9}$  cups. How many more cups does she need to put in?
- 12) Your mother gave you \$13.32 with which to buy a present. This covered  $\frac{3}{5}$  of the cost. How much did the present cost?

- 13) If the weight of a package is multiplied by  $\frac{5}{7}$  the result is 40.5 pounds. Find the weight of the package.
- 14) A stray dog ate 12 of your muffins. That was  $\frac{3}{10}$  of all of them! With how many did you start?



Name \_\_\_\_\_\_ Pd \_\_\_\_\_

## Multiple Representations Quiz

iviuitipie kepres	Sentations Quiz
Solve the problems below. Be sure to show your thinkin	g. ALL ANSWERS MUST BE WELL JUSTIFIED!
1. Grapes are priced at \$2.25 per pound. Which of	2. Which statement best describes the two tables

1. Grapes are priced at \$2.25 per pou	2. Which statement best describes the two tables							
the following equations best represent charged when a customer buys <b>g</b> pour		below		х	1	2	3	4
grapes?			TABLE A	Y	2.5	5.5	8.5	11.5
A. c = 2.25g				х	3	4	6	9
B. c = g + 2.25			TABLE B	Y	5.5	6.5	8.5	11.5
C. g = c + 2.25			ole A is a mi	ultiplic	ative re	lations	hip, wl	nere
D. g = 2.25c			2.5x. ble B is an a	dditive	e relatio	onship,	where	
		· ·	x + 2.5.			-		
			th answer A					
3. Which equation best represents the shown in the graph below? (BE CAREFU			table belov ard spends					
			presents th		-		villen c	quation
270			NUMBE	РОГ		OUNT EA		1
240 G 210			HOURS			(D)	ARNED	
			2			18.00		
(W) 240 Q 210 180 150 150 90 60 0 0 0 0 0 0 0 0 0 0 0 0 0			3.5			31.50	)	
			5			45.00		
	10		7			63.00	)	
GALLONS OF GAS (	G)							
A. m = 60g       B. g = 30m         C. g = 60m       D. m = 30g		A. d =	,		= h + 16	5		
C. g – 00111 D. 111 – 30g		C. h =	d + 9	D. d	= 9h			
5. The table shows how the total cost	-		ich of the fo					5
based on the number of milkshake. Moo-Moo Milkshake Shake Shack.	s bought at	depen	dent quanti	ities in	the gra	aph bei	ow?	
Which of the following best represe	ents the		~					
independent quantities in the table	9?		N 80 B 70			++		
A. 2, 7.5, 3, 11.25 NUMBER OF	TOTAL		CHANGE IN VOLUME (ML)		+			
B. 7.5, 11.25, 18.75, 30 2	COST		50 NI (0				+	
(- <b>-</b> )	7.50		<b>H H H H H H H H H H</b>					
C. 2, 3, 5, 8	11.25			•				
D. 20, 30, 50, 80	18.75		10	2 3	4 5 6	7 8	9 10	
D. 20, 30, 50, 80	30.00		1		ROFPEN	- 12 - TO	01.1	

A. 2, 20, 4, 40	B. 2, 4, 6, 8
C. 20, 40, 60, 80	D. 10, 20, 30, 40, 50

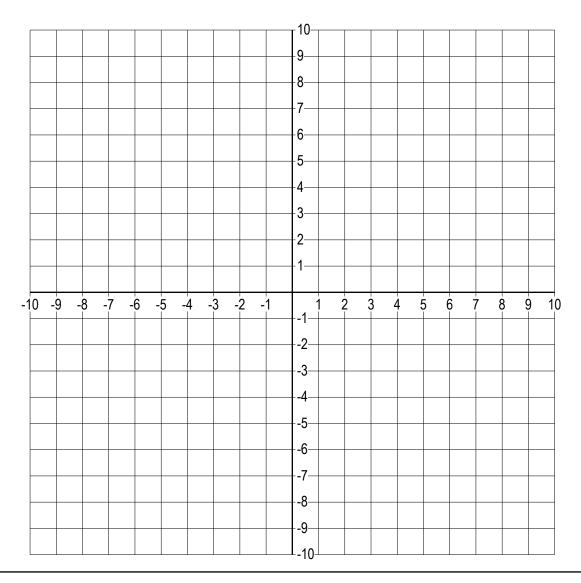


## **Coordinate Picture**

Name:

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

There is a picture hidden in this grid. Connect the points with lines to reveal it.



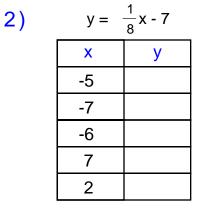
Line 1: (-4, -1), (-4, -4), (-5, -6), (-4, -9), (-2, -9), (-3, -6), (-2, -5)Line 2: (-7, 2), (-9, -2), (-8, -5), (-8, -7), (-7, -10), (-5, -10), (-6, -7), (-4, -4), (-1, -5) Line 3: (0, -2), (-1, -3), (-1, -6), (0, -10), (2, -10), (1, -7), (2, -5), (4, -5), (6, -3), (8, -1) Line 4: (6, 2), (6, 3), (7, 2), (6, 2) Line 5: (7, 0), (5, -2), (3, 0) Line 6: (-8, 0), (-10, 3), (-10, 6), (-9, 8), (-8, 4), (-6, 2), (-1, 2), (1, 3) Line 7: (3, 2), (4, 3), (4, 2), (3, 2)Line 8: (4, -1), (6, 1), (4, 1), (6, -1) Line 9: (0, 0), (2, 6), (0, 8), (3, 9), (3, 6), (7, 6), (7, 9), (10, 8), (8, 6), (10, 0), (5, -2), (0, 0) Line 10: (2, -5), (3, -9), (5, -9), (4, -6), (5, -4)

Name : _	 Score :
Teacher :	 Date :

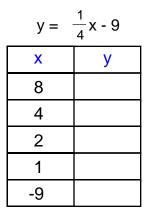
#### Complete the function table for each equation.

5)

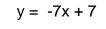
1) y = 6x + 2Х y 7 -7 -4 -1 1



3)



4)



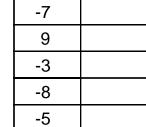
У

y = 9x + 4Х y 1 -3 9 -9 6

6) y = -6x + 9

	_
X	У
-1	
-7	
8	
2	
6	

7) y = 3x + 8Х



y

8)

y = 5x - 2

X	у
-9	
6	
5	
3	
-8	

12)

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

 $y = -\frac{1}{4}x + 6$ 

 $y = -\frac{1}{3}x - 3$ 

 $y = -\frac{1}{5}x - 6$ 

y

y

у

Χ

-6

8

-8

-3 -1

Х

-2

-1

-8

-5

4

Х

-6

3

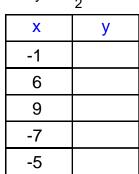
-8

9 -7

9)

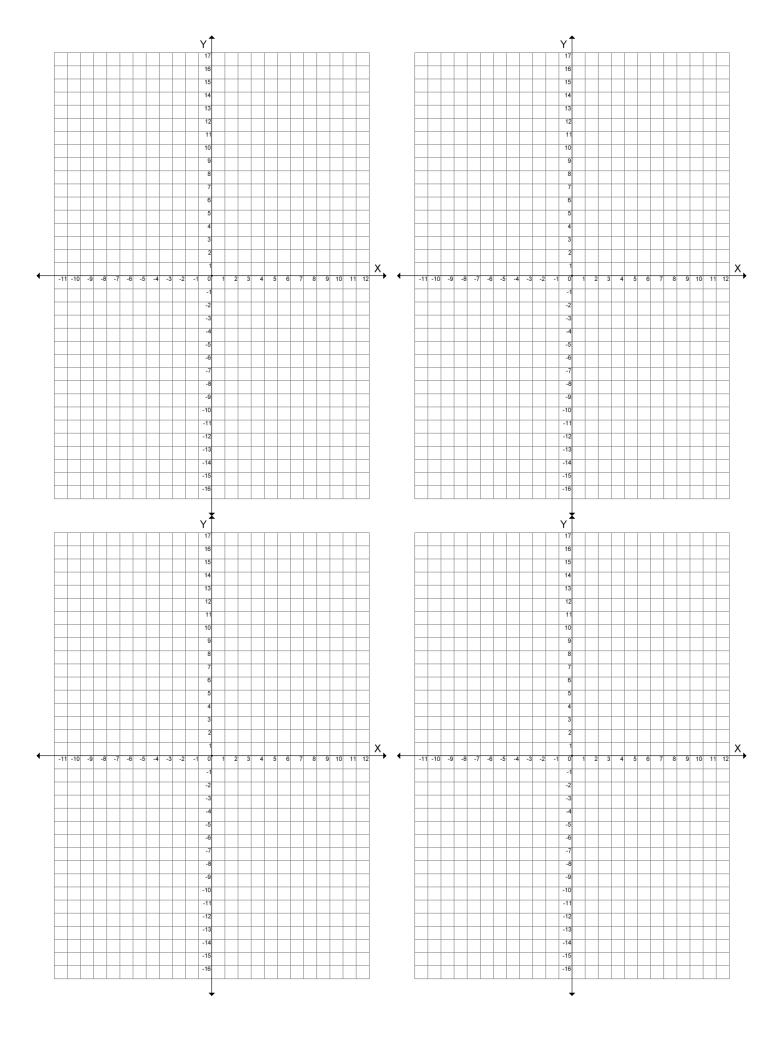
10)

11)









## Comparing Functions

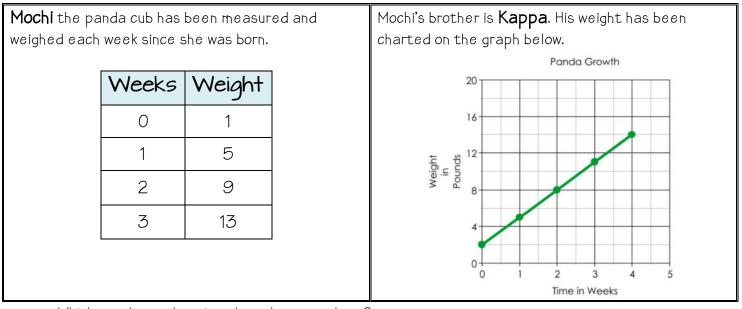
Name	•
Date:	

Period:

**8.F2:** Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

Read each situation, then answer the questions by analyzing and comparing the different linear situations.

**1.** The Metropolis Zoo recently celebrated the birth of two new baby pandas!



- Which panda was heavier when they were born?
- Which panda is growing faster?
- Which panda will weigh more at five weeks?

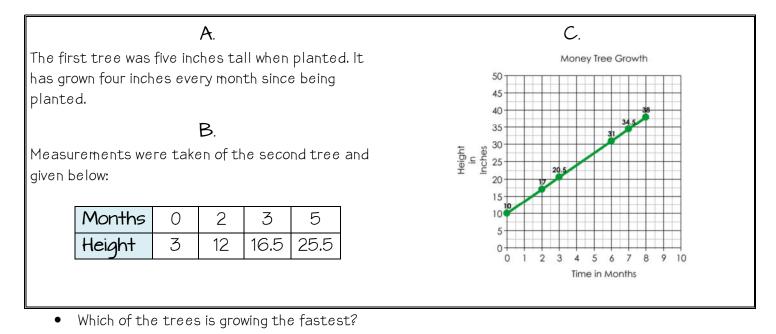
**2.** Two contestants on Biggest Loser are Valerie and Oscar. Their weight loss progress is shown below.

Valerie's weight loss is shown by this function, where $W$ is her weight in pounds and $t$ is the time in weeks.	-					
W = 235 - 2.5t		Weeks	0	2	5	6
		Weight	247	243	237	235

• Who weighed more at the beginning of the show?

Who is losing weight faster?

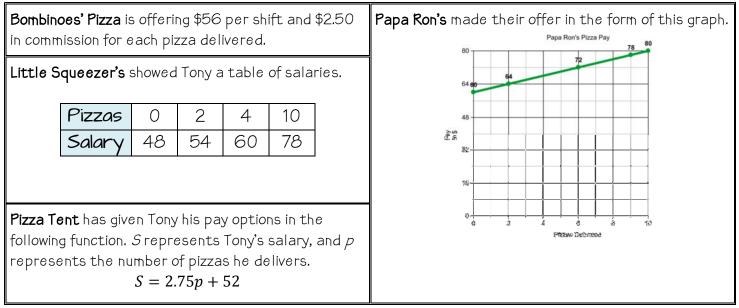
**3.** Mr. Rich recently planted a crop of money trees in his garden.



- Challenge: Which tree is the tallest after 6 months?

Which tree was the tallest when it was first planted?

**4.** Tony is the best pizza deliveryman in the city. He has been offered jobs by all the best pizza places.



- Which company pays the best pay per shift?
- Which company pays the most per pizza?
- Challenge: If Tony is going to deliver at least 20 pizzas every night, which company should he work for?

Goney Linear Word Problems

- 1. Oberon Cell Phone Company advertises service for 10 cents per minute plus a monthly fee of \$35.00.
  - a. Write and equation that relates the total cost of the phone bill, y, to the number of minutes you talk, x.

Х	Y	(x,y)
50		
100		
150		
200		
250		

b. Graph the equation on a .

- c. If Parker's phone bill for October was \$87.50, find the number of minutes he talked.
- 2. Quinn was shopping at a used book sale where each book sold for \$7. Quinn bought a poster for that cost \$3.10.
  - a. Write and equation that relates the total cost of his bill, y, to the number of books he buys, x.
  - b. Graph the equation

Х	Y	(x,y)
5		
10		
15		
20		
25		

- c. Estimate the number of books he could by with \$74.
- d. If Quinn spends \$45.10, how many books did he buy?

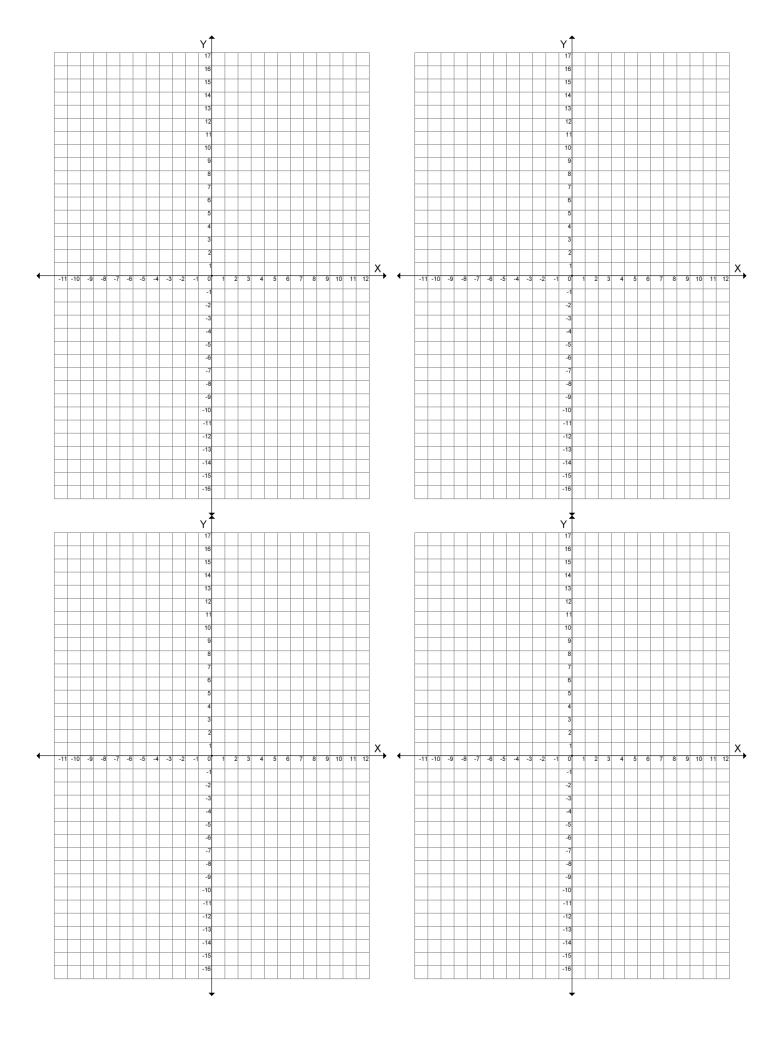
- 3. Rachel belongs to a local gym. She pays \$15 per month and a one time registration fee of \$75.
  - a. Write an equation that relates the total amount she spends on her membership, y, to the number of months she is a member, x.
  - b. Graph the equation.

X	Y	(x,y)
2		
4		
6		
8		
10		

- c. Estimate how many months she can be a member for \$165.
- d. If Rachel spent \$330 on her membership, how many months would she be a member?
- 4. Yamir went to the store to buy one bag of dirt for 2 dollars and some tulips. The tulips sold for 35 cents a bulb.
  - a. Write an equation shows the relationship between his total bill, y, to the number of bulbs of tulips he buys, x.
  - b. Graph the equation

X	Y	(x,y)
10		
20		
30		
40		
50		

c. If he spent \$12.24, how many bulbs did he buy?





Name \_\_\_\_

Roll a number cube to fill in the independent variable (x) values. Then, use the rule to complete the dependent variable (y) columns. If you roll a number that you already have, just roll again.



Independent Variable (x)	Dependent Variable (y)
(1 <sup>st</sup> Roll)	
(2 <sup>nd</sup> Roll)	
(3 <sup>rd</sup> Roll)	
(4 <sup>th</sup> Roll)	
(5 <sup>th</sup> Roll)	

Rule: y = x + 8

Independent Variable (x)	Dependent Variable (y)
(1 <sup>st</sup> Roll)	
(2 <sup>nd</sup> Roll)	
(3 <sup>rd</sup> Roll)	
(4 <sup>th</sup> Roll)	
(5 <sup>th</sup> Roll)	

Rule: 
$$y = 7x$$



Independent Variable (x)	Dependent Variable (y)
(1 <sup>st</sup> Roll)	
(2 <sup>nd</sup> Roll)	
(3 <sup>rd</sup> Roll)	
(4 <sup>th</sup> Roll)	
(5 <sup>th</sup> Roll)	

Rule: 
$$y = \frac{x}{2}$$



Independent Variable (x)	Dependent Variable (y)		
(1 <sup>st</sup> Roll)			
(2 <sup>nd</sup> Roll)			
(3 <sup>rd</sup> Roll)			
(4 <sup>th</sup> Roll)			
(5 <sup>th</sup> Roll)			

Rule: 
$$y = 20 - x$$

Roll a number cube to complete each rule.

Then, use the rule to complete each dependent variable (y) column.

Independent Variable (x)	Dependent Variable (y)
1	
2	
3	
4	
5	

Rule:  $y = (_{1 \text{ st Roll}} + _{2 \text{ nd Roll}})x$ 

Independent Variable (x)	Dependent Variable (y)
30	
60	
90	
120	
150	

Rule: 
$$y = x \div \frac{1}{1 \text{ st Roll}}$$

Finished e	arly? 🏾 🕅
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Fill in the independent variable (x) values, with numbers of your choice. Then, write a rule for your neighbor to use, so they can complete the table.

Rule: y =

X			
у			

Independent Variable (x)	Dependent Variable (y)
2	
3	
4	
5	
6	
	( )

Rule: 
$$y = x \frac{(1-y)}{of 1st Roll}$$

Independent Variable (x)	Dependent Variable (y)
12	
22	
32	
42	
52	

Rule:  $y = x - \frac{1}{1 \text{ st Roll}}$ 

<u>6.6A/B/C</u> -			
Use the following story to complete # 1-7.			
Walter has a lawn mowing business. He charges \$25 for each lawn he mows.			
3. Create a table.	4. List the independent quantities.		
	List the dependent quantities.		
5. Write an equation to represent the data in the table.	6. Is the relationship from the table additive or		
5. Write an equation to represent the data in the table.	multiplicative?		
y =			
y y			
7. Graph it.			
<b>↑</b>			
	_		
	_		

8. Briana uses the table below to calculate the cost for her babysitting services.

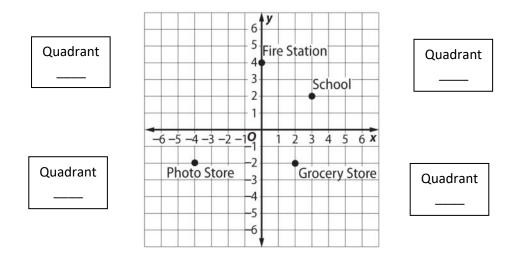
Number of hours ( <i>h</i> )	Cost(c)
2	\$17.00
3	\$25.50
4	\$34.00
5	\$42.50

Which equation correctly represents the relationship between the independent and dependent quantities?

A. $c = h + 8.5$	B. $h = 8.5c$
C. $c = 8.5h$	D. $h = 8.5 + c$

Per \_\_\_\_\_

9. Identify the ordered pair for each location below, THEN label all 4 quadrants, the origin, the x-axis, and the y-axis. Fire Station (, ) Photo Store (, ) School (, ) Grocery Store (, )



#### 10. Plot these points on the graph above:

Library (6, 5.5) Dog Park (-2 <sup>1</sup>/<sub>2</sub>, 3) CVS (-6, 1 <sup>1</sup>/<sub>2</sub>) Basketball Courts (4.5, -5.5)

11. Which quadrant are the following data points? Quadrant I, II, III or IV?

(5.9, -3.99) \_\_\_\_ (-8.5, -0.33) \_\_\_\_ (62.05, 7.5) \_\_\_\_ (-1, 9) \_\_\_\_

