Name\_\_\_\_\_

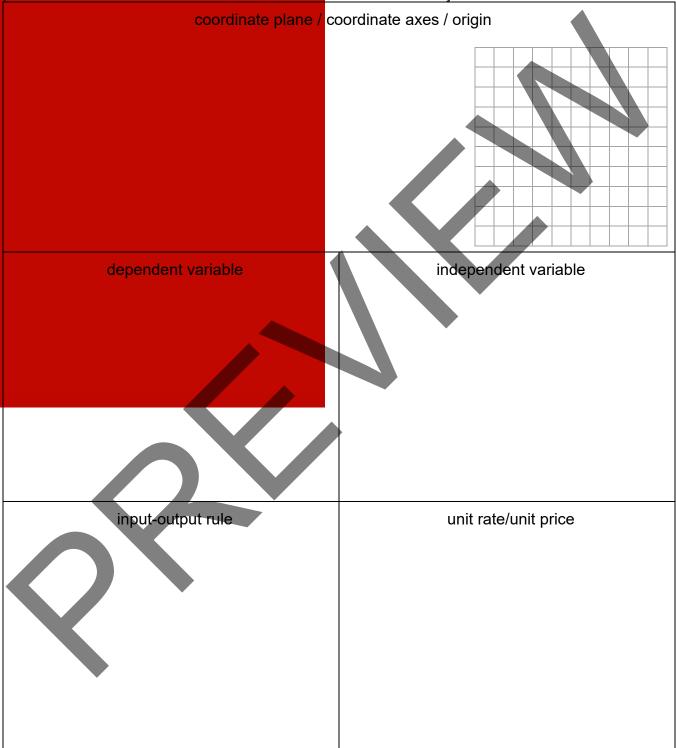
Period \_\_\_\_\_ Date \_\_\_\_\_

UNIT 7 STUDENT PACKET GRADE 6	1ks
INPUTS AND OUTPUTS	
Monitor You Progress	r Page
My Word Bank	0
7.0 Opening Problem: Pick a Dot	1
<ul> <li>7.1 Visual Patterns <ul> <li>Review graphing ordered pairs</li> <li>Describe sequences of numbers generated by visual patterns using verbal descriptions, tables of numbers, graphs, and inputoutput rules.</li> </ul> </li> </ul>	2
Understand the relationship between dependent and         3 2 1 0         independent variables.	
<ul> <li>7.2 Comparing Prices</li> <li>Use tables of numbers, double number lines, graphs, equations, unit rates, and words to compare prices of similar items.</li> </ul>	9
7.3Rate Applications3210•Use rates in problem solving contexts.3210•Identify unit rates in tables, graphs, and equations.3210•Deepen understanding of independent and dependent variables.3210	14
Review	20
Student Resources	27

Parent (or Guardian) signature \_\_\_\_\_

# **MY WORD BANK**

Explain the mathematical meaning of each word or phrase, using pictures and examples when possible. See **Student Resources** for mathematical vocabulary.



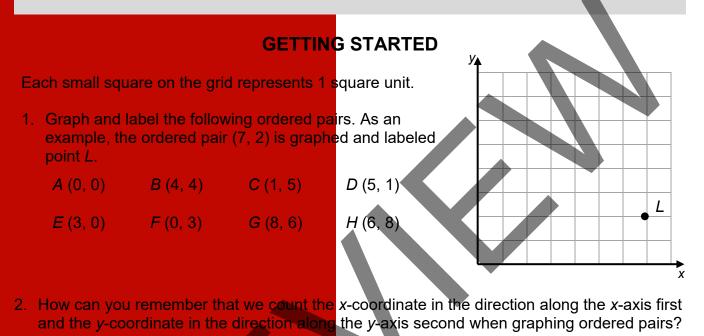


5. Record the meaning of <u>coordinate plane</u> in **My Word Bank**.

# **VISUAL PATTERNS**

We will review graphing ordered pairs. We will use words, tables of numbers, graphs, and algebraic input-output rules (equations) to describe visual patterns. We will identify what is typically the difference between independent variables and dependent variables.

[6RP3a, 6EE2ab, 6EE6, 6EE9; SMP1, 2, 3, 6, 7, 8]

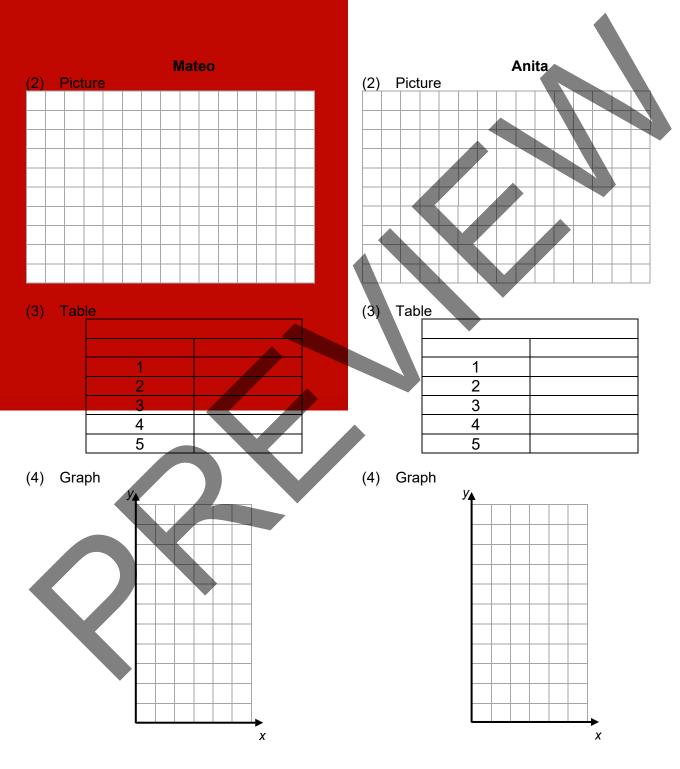


Use the word list below to fill in the blanks. Some words are used more than once. Use the coordinate plane below for reference or notes.

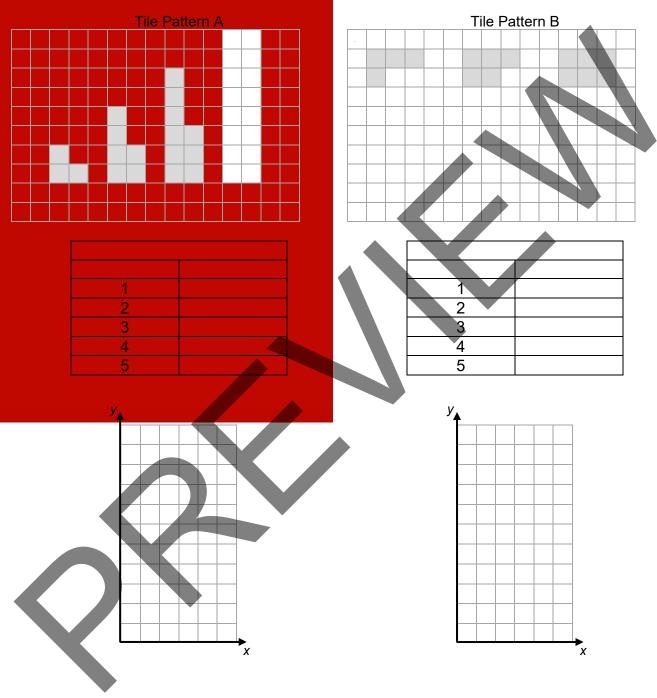
coordinate plane	horizontal	ordered pairs	origin	vertical				
3. Ais a plane with a horizontal axis and a vertical axis meeting								
at the point (0, 0), called	at the point (0, 0), called the							
4. The axis is	4. The axis is typically referred to as the <i>x</i> -axis.							
5. The axis i	s typically referre	d to as the <i>y</i> -axis.						
6. Points in the coordinate	plane are named	by pairs of numbers	s called					
They are v	ritten in the form	( <i>x</i> , <i>y</i> ).						
7. From the origin to the po	int located at (3,	5), move 3 units in t	he	direction				
and 5 units in the	direction.							

#### WHAT COMES NEXT?

Follow your teacher's directions. (1)



1. Label steps 1 – 3 for tile patterns A and B, and draw step 4 for each pattern. Complete the tables and draw the graphs with titles and labels.



2. Why is it appropriate to leave the points unconnected?

#### **INPUT-OU**TPUT RULES

Follow your teacher's directions for $(1) - (2)$ .	
(1)	(2)
3. Record the meaning of <u>input-output rule</u> in	My Word Bank.
4. Write an input-output rule for Pattern A on	Practice 1 in words and symbols.
5. Write an input output rule for Pattern B on	Practice 1 in words and symbols.
The input values $(x)$ are sometimes referred values $(y)$ are sometimes referred to as the "	
Fill in the missing numbers and blanks based tables below, the x-value is considered the input $6$ . <b>x</b> 1 2 3 4	

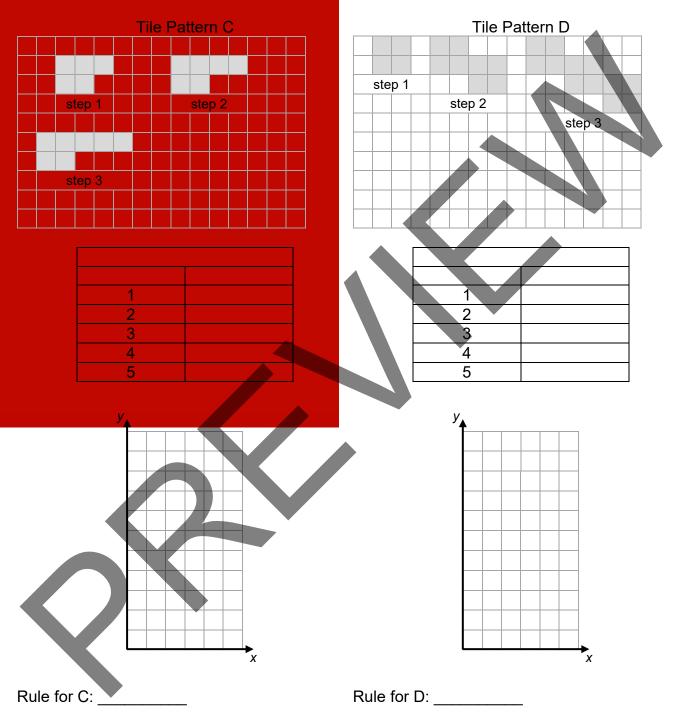
- y 5 6 7 9
  - a. Rate of change: for every increase of *x* by 1, *y* increases by \_\_\_\_\_.
  - b. Input-output rule (words): add \_\_\_\_\_ to an *x*-value (independent variable) to get its corresponding *y*-value (dependent variable).

7. <b>x</b>	1	2	3	4		6
У	4	8	12	16	20	

c. Input-output rule (equation): *y* = *x* + \_\_\_\_\_

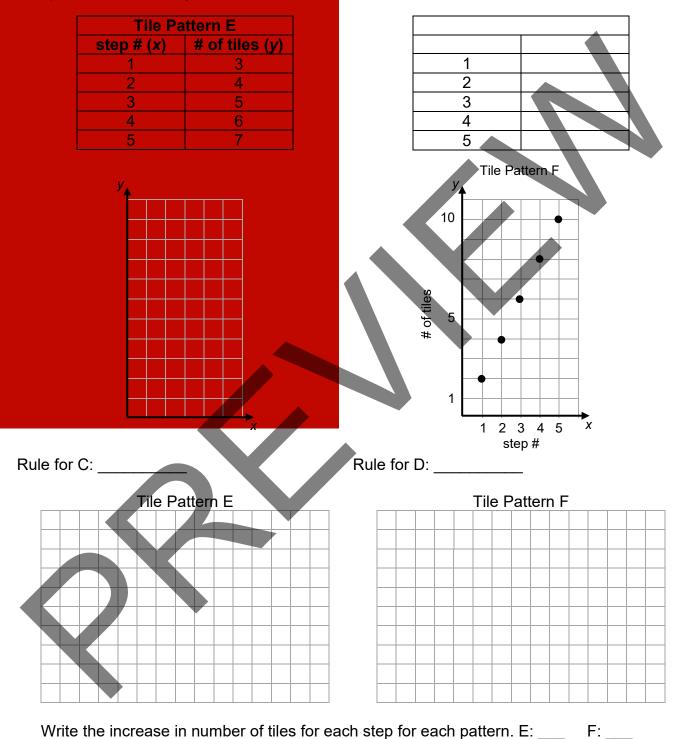
- a. Rate of change: for every increase of x by 1, y increases by \_\_\_\_\_.
- b. Input-output rule (words): Multiply an *x*-value (independent variable) by \_\_\_\_\_ to get its corresponding *y*-value (dependent variable).
- c. Input-output rule (equation):  $y = \_$  x

1. Build steps 1–4 for tile patterns C and D if needed. Draw step 4 for each. Complete the tables and make graphs with titles and labels. Write an input-output rule (equation).



2. True or false: for these patterns, typically the step number is the independent variable.

1. Pattern E is described with a table. Pattern F is described with a graph. Complete the other representations in any order.



2. True or false: For these patterns, typically the step number is the dependent variable.

#### **PRACTICE 4: EXTEND YOUR THINKING**

- 1. Fill in the chart based upon the work you did for tile patterns A F.
  - Column I: Copy each rule (make sure you have the correct rules before proceeding).
  - Columns II-IV: Find the numbers of square tiles for the given step numbers.
  - Column V: Find each step number when the number of square tiles is 60.

I	II		III	IV	v
Pattern	Step 10	St	ep 100	Step 1,000	Step Number for 60 tiles
$A \rightarrow$					
$B \rightarrow$					
C →					
$D \rightarrow$					
E→					
F →					

2. Complete the table and fill in the blanks.

a.	x	1	2	3	4	5	6	8	11	13
	У	1 2	1	$\frac{3}{2}$	2	5 2				$6\frac{1}{2}$

- b. Rate of change: for every increase of x by 1, y increases by \_\_\_\_\_.
- c. Input-output rule (words): Multiply an *x*-value by \_\_\_\_\_ to get its corresponding *y*-value;

OR divide an *x*-value by \_\_\_\_\_ to get its corresponding *y*-value.

- d. Input-output rule (equation): y =\_\_\_\_ x; OR  $y = \frac{x}{1}$
- e. If x = 100, then y =\_\_\_\_\_.
- f. If y = 100, then x =\_\_\_\_.

# **COMPARING PRICES**

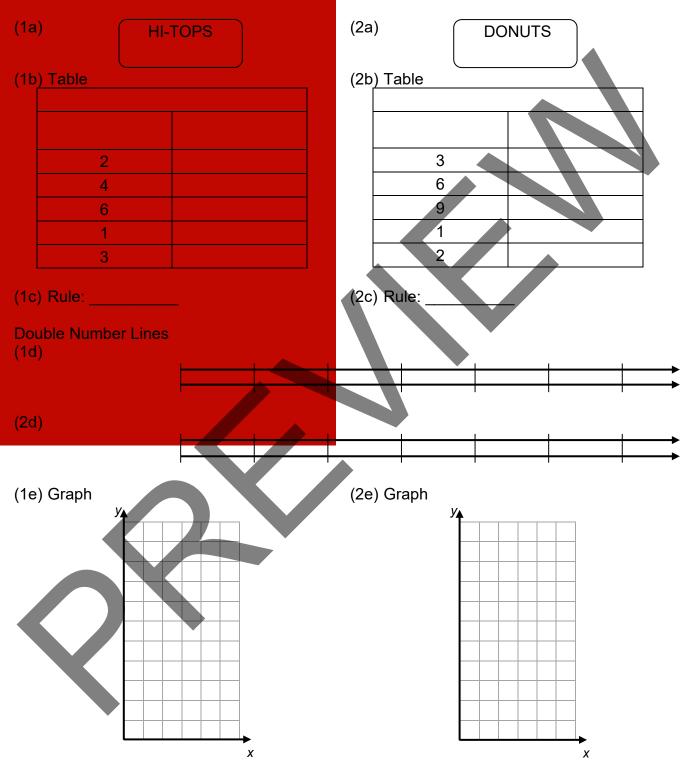
We will use tables, double number lines, graphs, unit prices, equations, and words to compare prices.

[6RP3abc, 6NS3, 6EE2a, 6EE6, 6EE9, 6SP1, 6SP3; SMP1, 2, 4, 5, 7]

# **GETTING STARTED** Suppose you were shopping for groceries at Barter Jack's and have to make some choices. Explain which choices you'd make and why. **Choice 2: fruit Choice 1: energy bars** bananas $\rightarrow$ 2 pounds for \$4.10 Healthy Crunch $\rightarrow$ 2 bars for \$2.50 OR OR apples $\rightarrow$ 2 pounds for \$4.95 Super Bar $\rightarrow$ 3 bars for \$2.50

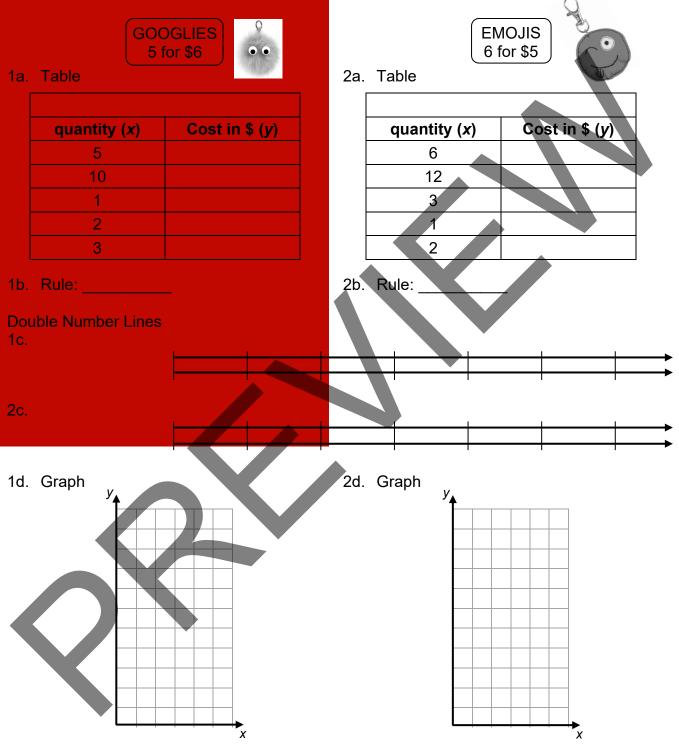
#### THE KEYCHAIN FUNDRAISER

Follow your teacher's directions for (1) and (2).

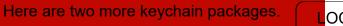


3. Record the meanings of <u>unit rate</u> and <u>unit price</u> in **My Word Bank**.

Here are two more keychain packages. Complete the representations for both.



3. \_\_\_\_\_ have the lower unit price because...





1. Complete each table below.

LOCKS						
quantity (x)	Cost in \$ (y)					
3						
6						
1						
2						
5						

CU	BES
quantity ( <i>x</i> )	Cost in \$ (y)
2	
4	
6	
1	
3	

- 2. Explain how you know which is the cheaper purchase based on unit price.
- 3. Explain how you know which is cheaper based on the entries with x = 3.
- 4. Explain how you know which is cheaper based on the entries with y = 10.
- 5. Write a rule for each. CUBES: LOCKS

6. Complete a graph for each y x x

7. Which graph illustrates a greater cost increase per each additional keychain? How can you see this when comparing the graphs?

#### A COMMITTEE DECISION

Help the Lincoln Middle School fundraising committee decide which keychains to sell for the fundraiser. The six different keychains analyzed on the previous pages are listed below. In addition, a small survey was taken, the results of which are in the table below.

1. Complete	the table.						
Keychain	Price	Unit price	Students polled w	ho preferred this keychain:			
		(price per keychain)	Number	Percent			
Hi-Tops	2 for \$3		18				
Donuts	3 for \$4		10				
Googlies	5 for \$6		20				
Emojis	6 for \$5		6				
Locks	3 for \$6		1				
Cubes	2 for \$5		5				
		Т	otal:	Total:			
Consider unit	t prices from t	the table.					
2. What is t prices?	the range of	3. What price?	is the median	4. What is the mean price?			
Write one sta	itistical questi	on based on ea	ch.				
Write one statistical question based on each.         5. Unit prices       6. Students polled							

7. Recommend one or more keychains to the committee based on data from the table.

# **RATE APPLICATIONS**

We will deepen our understanding of independent and dependent variables. We will use rates in money contexts and in time-distance contexts. We will identify unit rate in tables, graphs, and equations.

[6RP3abc, 6NS3, 6EE2ab, 6EE6, 6EE9; SMP1, 2, 4, 5, 6, 7, 8]

# **GETTING STARTED**

Julie is saving \$10 each week from her allowance.

1. Fill in the table for the total amount saved at each week through week 6.

Week # ( <i>W</i> )	1		3		5 6	
Total \$ (7)		20		40		

- 2. Rate of change: for every increase of one week, the total increases by
- 3. Complete an input-output rule that relates week number to total dollars saved: T= \_\_\_\_\_
- 4. For the last three entries in the table let W = 10, 25, and 37. Use your rule to find the corresponding values for *T*.
- 5. For problem 2 above, typically, which quantity is the independent variable?
- 6. After how many weeks of allowance will Julie have saved each amount?

a.	\$400	b.	\$500
C.	\$450	d.	\$425

#### RAISING MONEY FOR MUSIC

Follow your teacher's directions for (1) and (2).

The Springfield Education Foundation is trying to raise \$100,000 for its music programs. They have fundraisers throughout the year.

(1) The SEF sells holiday trees for its December fundraiser. Each tree sells for

Table I					
# of trees sold ( <i>t</i> )	Money earned in \$ ( <i>m</i> )				
1					
2					
5					
10					
50					
100					

Tab	
Money earned in \$ ( <i>m</i> )	# of trees sold ( <i>t</i> )
50	
100	
200	
600	
1,000	
4,000	

(2)

Table I: The number of money earned depends on

Table II: The number of trees sold depends on

3. Write two different equations that relate *t* and *m*.

m = \_\_\_\_\_ t = \_\_\_\_

Use the equations from problem 3 to complete problems 4 - 5.

4. If they sell 1,000 trees, how much will they earn?

What percent of the way would they be to their goal?

5. How many trees sold raises \$60,000?

If they did this, how many more trees would they have to sell to reach their goal?

1. The Springfield Education Foundation hosts a pancake breakfast for its May fundraiser. They sell each breakfast for \$5.50. Complete Tables III and IV.

Tab	ole III	Tabl	e IV
# of breakfasts sold ( <i>b</i> )	Money earned in \$ ( <i>m</i> )	Money earned in \$ ( <i>m</i> )	# of breakfasts sold (b)
1		5.50	
2		11	
4		55	
12		110	
40		440	
100		660	
2. Write two different	equations that relate b	and <i>m</i> .	

b.

b =

a. *m* = \_\_\_\_\_

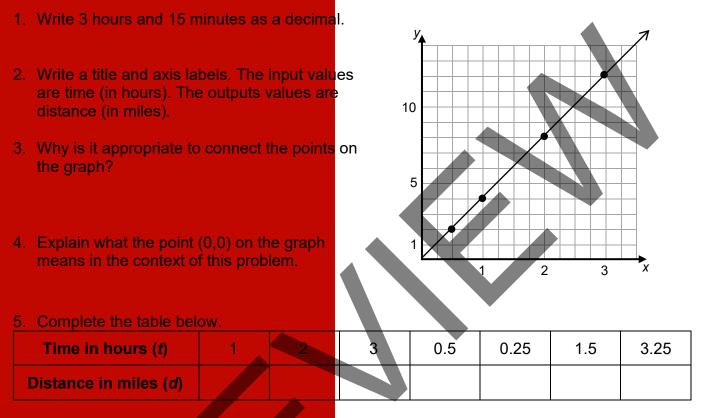
3. In Table III, money earned in dollars depends on...

- 4. If they sell 1,000 breakfasts, how much will they earn?
- 5. The Springfield Education Foundation sponsors a walk-a-thon for its August fundraiser. Each entry fee is \$25. Complete Tables V and VI.

Table V	Tabl	e VI
# of entries sold Money earned in \$ (w) (m)	Money earned in \$ ( <i>m</i> )	# of entries sold ( <i>w</i> )
1	25	
2	50	
3	125	
5	500	
10	1,000	
100	2,000	
<ol> <li>Write two different equations that relate <i>m</i> a</li> <li><i>m</i> =</li> </ol>	and <i>w</i> . b. <i>w</i> =	_
7. In Table VI, number of entries sold depend	s on	
8. How many entries sold accomplishes a \$6,	500 goal?	

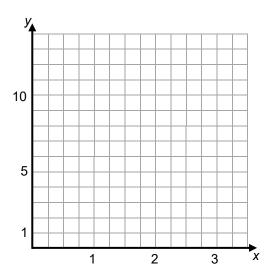
#### RUNNING

Martino is training for a marathon. Today he ran for 3 hours and 15 minutes at a constant rate of speed. A graph of his run is shown.



- 6. Write an equation for distance in terms of 10. Suppose Martino starts his run fast and time.
- 7. What is the meaning of the coefficient of t in the equation? Circle it in the table and the graph.
- 8. At this rate, how far did Martino run in 2.5 hours?
- 9. At this rate, how many hours would it take Martino to run 17 miles?

then slows down. Make a properly labeled graph to illustrate this situation.



Darryl is doing a 52-mile bicycle ride that takes him 4 hours. He rides at a constant rate.

1. Complete the table below.

Time in hours ( <i>t</i> )	4	2	1	0.5	0.25	0.75	1.5	2.75	3.25
Distance in miles ( <i>d</i> )									

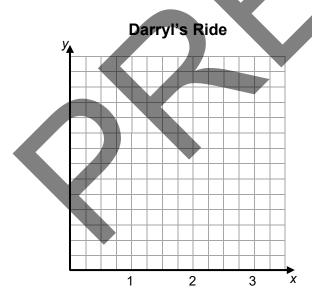
- 2. Write an equation that relates distance and time.
- 3. Draw a graph below. Include at least four points from the table. Be sure to label it completely.

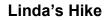
Linda is doing an 18-kilometer uphill hike that takes her 6 hours. She hikes at a constant rate.

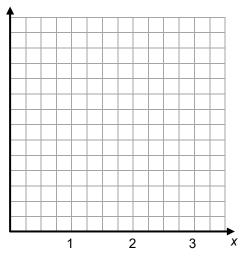
4. Complete the table below.

Time in hours ( <i>t</i> )	6		2	0.5	0.25	0.75			
Distance in kilometers (d)		3					5.25	6.75	10.5

- 5. Write an equation that relates distance and time.
- 6. Draw a graph below for Linda's hike. Include at least four points from the table. Be sure to label it completely.



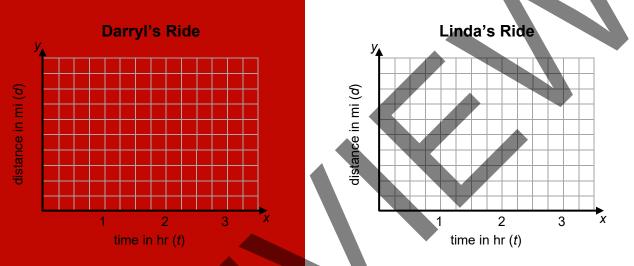




#### PRACTICE 9: EXTEND YOUR THINKING

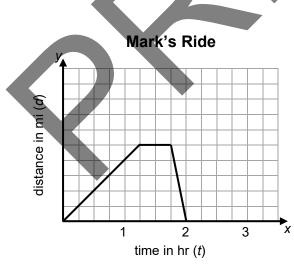
Refer to Darryl's ride and Linda's hike from the previous page.

- 1. Sketch a graph for Darryl if, instead of riding at a constant rate the entire race, he started off slowly uphill, then fast downhill, then finished at medium speed on flat land,
- 2. Sketch a graph for Linda if she hikes at some constant rate the entire time, except for a 30-minute break somewhere in the middle of the hike.

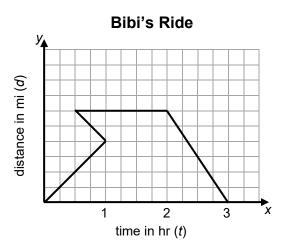


Notice that the graphs for Mark and Bibi below have height on the vertical axes.

- 3. Explain Mark's graph in writing.
- 4. Explain the part of Bibi's hike that does not make sense.



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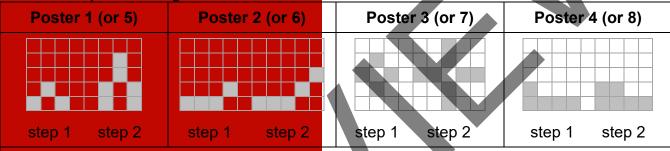
# REVIEW

# **POSTER PROBLEMS:** INPUTS AND OUTPUTS

Part 1: Your teacher will divide you into groups.

- Identify members of your group as A, B, C, or D.
- Each group will start at a numbered poster. Our group start poster is
- Each group will have a different colored marker. Our group marker is

Part 2: Do the problems on the posters by following your teacher's directions. Steps 1 and 2 of each pattern are given below.



- A. Copy steps 1 and 2 onto the poster and draw step 3. Explain your step 3 in words.
- B. Make a table, label it appropriately, and record values for steps 1 through 5.

C. Make a graph and label it appropriately.

D. Write an input-output rule that relates the total number of tiles to the step number.

Part 3: Return to your seats. Work with your group, and show all work.

Use your "start problem."

1. Find the number of tiles in step 100.

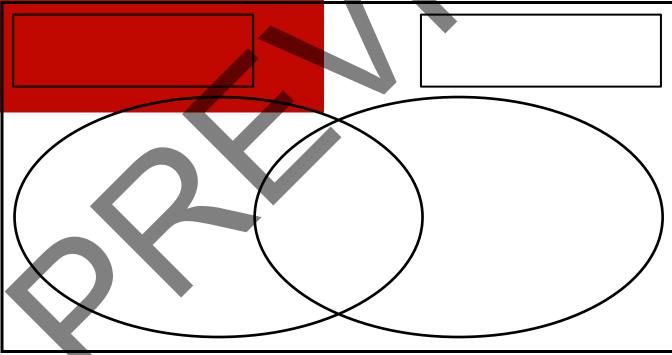
2. Find which step number has exactly 120 tiles.

#### MATCH AND COMPARE SORT: INPUTS AND OUTPUTS

1. Individually, match words with descriptions. Record results.

	Card set 🛆			Card set 🔘	
Card number	word	Card letter	Card number	word	Card letter
I			I		
п			п		
ш			III		
IV			IV		

2. Partners, choose a pair of numbered matched cards and record the attributes that are the same and those that are different.



3. Partners, choose another pair of numbered matched cards and discuss the attributes that are the same and those that are different.

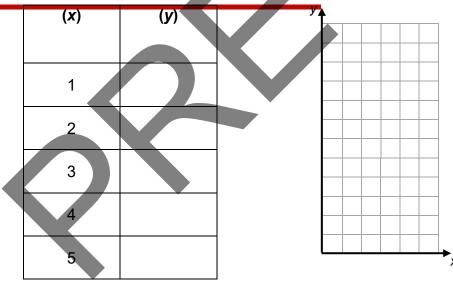
#### WHY DOESN'T IT BELONG?: INPUTS AND OUTPUTS

Four different stores near LaRonda's home sell yellowfin tuna by the pound. Though prices are listed differently, she can buy any number of pounds at each store at the given rate.

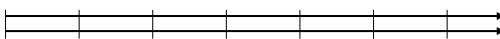
1. Choose one of these price rates and explain why it doesn't belong with the others. Then choose at least one more and explain why it doesn't belong.

А	В
\$3.50 for	\$24.00 for
1 pound	6 pounds
С	D
\$8.75 for	4 pounds
2.5 pounds	for \$14.00

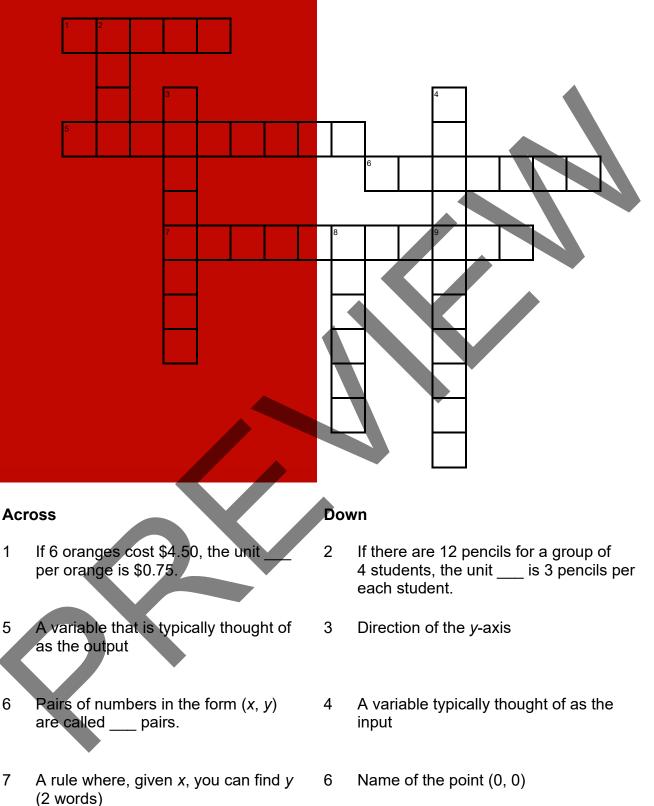
- 2. For the price that is common among three of the stores above, complete the following:
  - a table
  - a double number line
  - a graph
  - an input-output rule (equation)



Equation:



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#### VOCABULARY REVIEW

# SPIRAL REVIEW

- 1. **Computational Fluency Challenge.** This paper and pencil exercise will help you gain fluency with multiplication and division. Try to complete this challenge without any errors. No calculators!
  - Start with 2.5. Multiply by 4. Divide the result by 5. Multiply the result by 20. Multiply the result by 40. Now you have a "big number". My big number is \_\_\_\_\_.
  - Start with your big number. Divide it by 40. Divide the result by 10. Divide the result by 2. Multiply the result by 5. Divide the result by 4. What is the final result?
- 2. Evaluate each numerical expression below.

a. 26 – 4 <sup>2</sup>	b. $2(6 + 4)$ c. $2(6 - 4)^2$
d. 2 + (6 + 4) <sup>2</sup>	e. $2(6^2) + 2(4)^2$ f. $6 + 4 \cdot 2$

3. Christopher needs to paint a rectangular picture that has an area of  $12\frac{3}{8}$  square yards on a

brick wall. The width of his painting is  $2\frac{3}{4}$  yards. What does the height of the painting need to be?

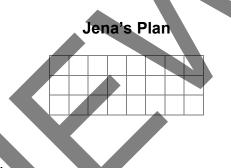


# SPIRAL REVIEW

4. Ryann bought 3 drinks that cost \$2 each and 3 hot dogs that cost \$2.50 each at the snack bar. Circle the expressions that could be used to compute the total cost.

5. Denali and Jena created plans for a quilted blanket in sewing class, using patches that are 6 inches on each side. Patches are represented by the small squares below.

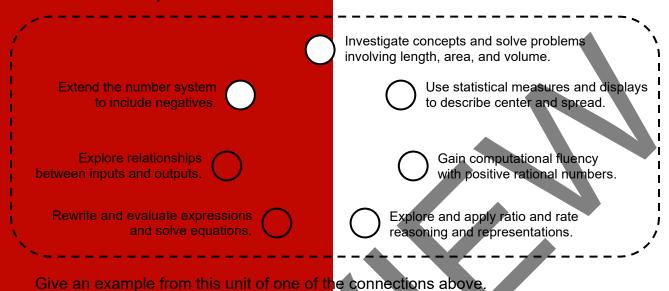




- a. Whose blanket covers a greater area? Explain.
- b. After they sew the patches together, they have to sew a ribbon around the edge of their blankets. Who will need to use a longer ribbon? Explain your answer in feet.
- c. Leo wants to make a square blanket using 16 patches. Write two equivalent expressions using multiplication and exponents to represent its area.
- 6. Some nutritionists recommend that teens drink 8 cups of water per day.
  - a. Yesterday Helena drank 64 oz of water. Did Helena reach this goal? What percent of this goal did Helena drink?
  - b. Yesterday Betina drank a quart of water. Did Betina reach this goal? What percent of this goal did Betina drink?
  - c. Yesterday Caryn drank 6 cups of water. Did Caryn reach this goal? What percent of this goal did Caryn drink?

#### REFLECTION

1. **Big Ideas**. Shade all circles that describe big ideas in this unit. Draw lines to show connections that you noticed.



- 2. Unit Progress. Go back to Monitor Your Progress on the cover and complete or update your responses. Explain something you understand better now than before or something you would still like to work on.
- 3. **Mathematical Practice.** Did you get stuck on any problems in this unit? What did you do to get unstuck [SMP1]? Then circle one more SMP on the back of this packet that you think was addressed in this unit and be prepared to share an example.

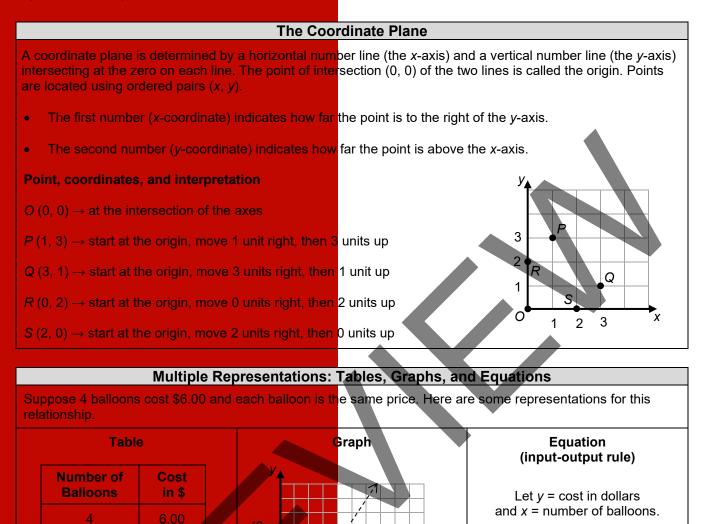
4. **More Connections.** Give an example of how data along with your math skills helped you to make a decision or prediction.

# STUDENT RESOURCES

Word or Phrase	Definition
coefficient	A <u>coefficient</u> is a number or constant factor in a term of an algebraic expression.
	In the expression $3x + 5$ , 3 is the coefficient of the term $3x$ , and 5 is the constant term.
coordinate plane	A <u>coordinate plane</u> is a plane with two perpendicular number lines ( <u>coordinate axes</u> ) meeting at a point (the <u>origin</u> ). Each point <i>P</i> of the coordinate plane corresponds to an ordered pair $(a, b)$ of numbers, called the <u>coordinates</u> of <i>P</i> . The point <i>P</i> may be denoted $P(a, b)$ .
	The coordinate axes are often referred to as the x-axis and the y-axis respectively. The origin has coordinates (0, 0).
double number line	A <u>double number line</u> is a diagram made up of two parallel number lines that visually depict the relative sizes of two quantities. Double number lines are often used when the two quantities have different units, such as miles and hours.
	The proportional relationship "Wrigley eats 3 cups of kibble per day" can be represented in the following double number line diagram.
	0 3 6 9 12 15 Cups of kibble Number of days
dependent variable	A <u>dependent variable</u> is a variable whose value is determined by the values of the independent variables. See <u>independent variable</u> .
equation	An <u>equation</u> is a mathematical statement that asserts the equality of two expressions. 18 = 8 + 10 is an equation that involves only numbers. This is a numerical
	equation. 18 = x + 10 is an equation that involves numbers and a variable and $y = x + 10is an equation that involves a number and two variables. These are bothalgebraic (variable) equations.$
expression	A mathematical <u>expression</u> is a combination of numbers, variables, and operation symbols. When values are assigned to the variables, an expression represents a number.
	Some mathematical expressions are 19, 7 <i>x</i> , <i>a</i> + <i>b</i> , $\frac{8+x}{10}$ , and $4v - w$ .

#### Inputs and Outputs

Word or Phrase	Definition
independent variable	An <u>independent variable</u> is a variable whose value may be specified. Once specified, the values of the independent variables determine the values of the dependent variables.
	For the equation $y = 3x$ , y is the dependent variable and x is the independent variable. We may assign a value to x. The value assigned to x determines the value of y.
input-output rule	An <u>input-output rule</u> for a sequence of values is a rule that establishes explicitly an output value for each given input value.
	input value (x)         1         2         3         4         5         x           output value (y)         1.5         3         4.5         6         7.5         1.5x
	In the table above, the input-output rule could be $y = 1.5x$ . In other words, to get the output value, multiply the input value by 1.5. If $x = 100$ , then $y = 1.5(100) = 150$ .
rate	See <u>unit rate</u> .
unit price	A <u>unit price</u> is a price for one unit of measure.
	If 4 apples cost \$1.00, then the unit price is $\frac{\$1.00}{4}$ = \$0.25 for one apple, or 0.25 dollars per apple or 25 cents per apple.
unit rate	The <u>unit rate</u> associated with a ratio $a:b$ of two quantities $a$ and $b, b \neq 0$ ,
	is the number $\frac{a}{b}$ , to which units may be attached. This is sometimes referred to as the value of the ratio.
	The ratio of 40 miles for every 5 hours has a unit rate of $\frac{40}{5}$ = 8 miles per
	hòur.
variable	A <u>variable</u> is a quantity whose value has not been specified. Variables are used in many different ways. They may refer to quantities that vary in a relationship (as in a formula or an input-output rule). They may refer to unknown quantities in expressions, equations, or inequalities. Finally, they may be used to generalize rules of arithmetic.
	In the equation $d = rt$ , the quantities $d$ , $r$ , and $t$ are variables. In the equation $2x = 10$ , the variable $x$ may be referred to as the unknown. The equation $a + b = b + a$ generalizes the commutative property of addition for all numbers $a$ and $b$ .
X	



812.00Note that the unit price is<br/>\$1.50 per balloon2 # of balloons + y # of balloons + y

2

1

3.00

1.50

We can see from the table

that the unit price is 1.50 dollars per balloon.

# COMMON CORE STATE STANDARDS

	STANDARDS FOR MATHEMATICAL CONTENT
6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.
	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations:
	Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
b. 3	Solve unit rate problems including those involving unit pricing and constant speed.
	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.
6.NS.B	Compute fluently with multi-digit numbers and find common factors and multiples.
6.NS.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.
6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.
6.EE.2	Write, read, and evaluate expressions in which letters stand for numbers:
a. <sup>1</sup>	Write expressions that record operations with numbers and with letters standing for numbers.
	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems.
6.EE.B	Reason about and solve one-variable equations and inequalities.
1	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
6.EE.C	Represent and analyze quantitative relationships between dependent and independent variables.
	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.
6.SP.A	Develop understanding of statistical variability.
	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.
	STANDARDS FOR MATHEMATICAL PRACTICE
SMP1	Make sense of problems and persevere in solving them.
SMP2	Reason abstractly and quantitatively.
SMP3	Construct viable arguments and critique the reasoning of others.
SMP4	Model with mathematics.
SMP5	Use appropriate tools strategically.
SMP6 SMP7	Attend to precision. Look for and make use of structure.
SMP8	Look for and express regularity in repeated reasoning. 9781614 454274