Unit: Equations and Inequalities Student Handout 5

Name .	
Date _	Pd

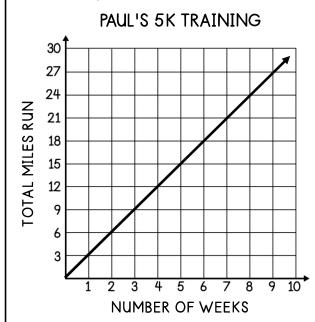
## INDEPENDENT AND DEPENDENT VARIABLES

• The independent variable is the \_\_\_\_\_ variable, or the

• It can be represented by the \_\_\_\_\_ and is

A WKIWRIE 2	sometimes called the			
	Ex: time, number of item	S		
DEPENDENT VADIABLES	The dependent variable is thevariable. It is dependent on the independent variable.  It can be represented by the and based on the independent variable.			
	Ex: total cost (\$)			
Read each situation be	elow and determine which i	s the independent and dependent variable.		
1. Jameson runs $m$ miles and burns $c$ number of calories.		2. The more hours, $h$ , Brady practices, the better his test grade, $g$ , will be.		
Independent:		Independent:		
Dependent:		Dependent:		
3. Michael pays \$8.99 per month for his streaming subscription.		4. A car travels 60 mph.		
Independent:		Independent:		
Dependent:		Dependent:		
5. Each slice of pizza costs \$6.00 at the football game.		6. The later Jessie stays up at night, the sleepier she is at school.		
Independent:		Independent:		
Dependent:		Dependent:		
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7. Use the graph below to determine the independent and dependent quantities.



- a. What is the independent variable?
- b. What is the dependent variable?
- c. List the independent quantities:
- d. List the dependent quantities:
- e. Write an equation to represent Paul's 5K training.

For questions 8-9, record the independent and dependent variables from each table. Then, write an equation to represent the relationship between the variables.

8.

HOURS (H)	2	4	6	8
MILES (M)	130	260	390	520

Independent: \_\_\_\_\_

Dependent: \_\_\_\_\_

Equation:

MONTHS (M)	1	2	3	4
TOTAL COST (C)	3.99	7.98	11.97	15.96

Independent: \_\_\_\_\_

Dependent: \_\_\_\_\_

Equation: \_\_\_\_\_

List the independent and dependent quantities from each table.

10.	# OF MINUTES (M)	TOTAL WORDS (W)
	3	165
	6	330
	q	495
	12	660

Independent: \_\_\_\_\_

(H)	PAIN (P)
1	0.75
2	1.50
3	2.25
4	3.00

11. LIQUIDS INCUES OF

Independent: \_\_\_\_\_

Dependent: \_\_\_\_\_

12.	(M) MEEK?	TOTAL COST (C)
	16	56
	8	28
	4	14
	12	42

Independent: \_\_\_\_\_

Dependent: \_\_\_\_\_

Summarize today's lesson:

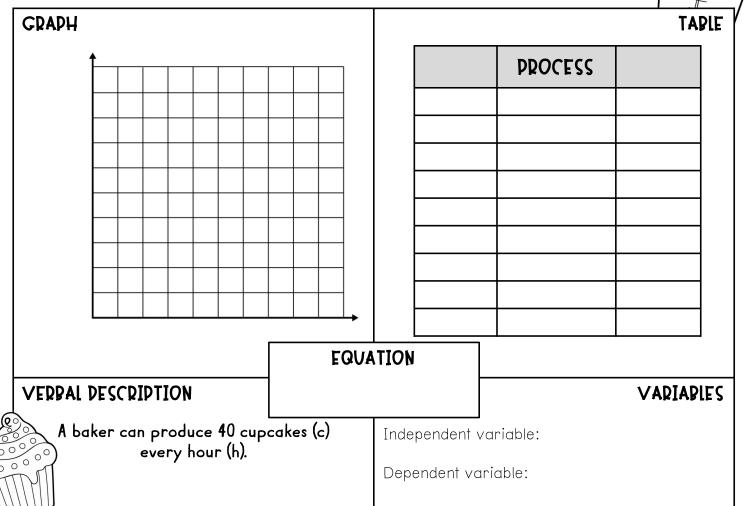
Dependent: \_\_\_\_\_

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## INDEPENDENT AND DEPENDENT VARIABLES

Complete the missing information in the chart below using the given verbal description.



Use the information from the diagram above to answer the following questions about independent and dependent variables.

1. Write a sentence to explain the independent and dependent variables.	2. How many hours does it take to bake 280 cupcakes?
3. If the baker continued at the same rate, then how many cupcakes would she be able to make in 12.5 hours?	4. What does the ordered pair (5, 200) represent in this situation?