## Unit Rate Leading to Slope

Nana likes her milk "just right". This means that for every 2 cups of milk, you must mix in 8 scoops of chocolate powder. Fill in the missing values in the table, being sure to maintain a proportional relationship.



Slope: \_\_\_\_\_

Slone -	change _	
Slope –	change	

Find the — between each set of points on the graph by counting vertical and horizontal change.

Between (0, 0) and (1,4)	Between (0, 0) and (3,12)	Between (1, 4) and (5,20)	Between (2, 8) and (6,24)
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Suppose my favorite lemonade recipe calls for 8 lemons to 12 cups of sugar water. Fill in the missing values in the table, being sure to maintain a proportional relationship.

3		
Number of	Sugar Water	
Lemons (x)	(cups)	
8	12	
16		
	6	
2		
	-	
	1	

Use the ordered pairs from the table to create a graphical representation of the relationship.

What is the unit rate? What does it mean? (write improper)

What is the constant of proportionality? (write as an improper fraction)

What is the equation (y = kx) of the relationship?



Find the — between each set of points on the graph by counting vertical and horizontal change.

Simplify each answer, but leave fractions improper if applicable.

Between (0, 0) and (2,3)	Between (0,0) and (16,24)	Between (2,3) and (16,24)	Between (4,6) and (8,12)

What is the slope of the line between any two points on the graph?

In which ordered pair do you see this in the table? What special ordered pair is this?