- 7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. [1]
- 1. Mr. Miller uses $\frac{1}{2}$ cup of kale for every $\frac{3}{4}$ cup of yogurt in his smoothies. How many cups of yogurt are used for 1 cup of kale? Show your work to find this unit rate.

OR

$$k = \frac{3}{4} \cdot 2 = \left[\frac{1}{2} \text{ cups yogurt per cup of kale} \right]$$

7.RP.2 Decide whether two quantities are in a proportional relationship by testing for equivalent ratios in a table or by graphing and observing if it is a straight line through the origin. Identify the constant of proportionality (unit rate) in tables, graphs, equations, and descriptions. Represent proportional relationships by equations. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. [2, 3]

2. Below are two tables of values.

a. Circle the table below that shows a proportional relationship.

х	0	3	6	9
у	0	9	36	81

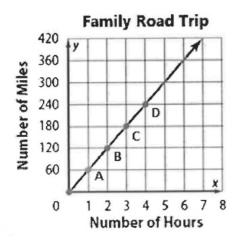
	_	2		-
х	- 0	2	4	D
34	0	3	6	9

- b. In the table you circled above, what is the constant of proportionality? ________
- c. Use your answer in part (b) to write an equation for the table you circled.

y=1.5x

7.RP.2 Decide whether two quantities are in a proportional relationship by testing for equivalent ratios in a table or by graphing and observing if it is a straight line through the origin. Identify the constant of proportionality (unit rate) in tables, graphs, equations, and descriptions. Represent proportional relationships by equations. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. [2, 3]

3. The graph below shows a proportional relationship.



a. What does the point (4, 240) represent in the context of the

in 4 hours, the family has traveled 240 miles.

b. What is the constant of proportionality? 60

c. Write an equation to find the number of miles, m, for any number of hours, h.

m= 60h