

7.RP.1.TA.E1

Unit Rate Solutions

1

David uses $\frac{1}{4}$ cup of apple juice for every $\frac{1}{2}$ cup of carrot juice to make a fruit drink.

Enter the number of cups of apple juice David uses for 1 cup of carrot juice.

$\frac{1}{2}$

2

This table shows a proportional relationship between the number of cups of sugar and flour used for a recipe.

Cups of Sugar	Cups of Flour
2	5
6	15
8	20

Enter the number of cups of sugar used for 1 cup of flour.

$\frac{2}{5}$

3

For a drink recipe, the amount of pineapple juice is proportional to the amount of carrot juice.

This equation represents the proportional relationship between the number of quarts of pineapple juice (p) and carrot juice (c) in the recipe.

$$2p = 8c$$

Enter the number of quarts of pineapple juice used for 1 quart of carrot juice.

1/4

4

A bottle is $\frac{1}{2}$ full. It contains $\frac{1}{5}$ gallon of water.

There are 16 cups in one gallon.

Enter the total number of cups it takes to completely fill the whole bottle.

6 $\frac{2}{5}$ or 6.4

Toby is a produce manager at a grocery store. He buys fresh fruit from local farmers each week.

Based on previous sales, he has identified the following ideal ratios (in pounds) to keep in stock for certain fruit.

The ratio of

- apples to oranges is 5:4
- oranges to grapes is 2:1
- grapes to bananas is 2:3

This table shows the amount, in pounds, of each fruit a local farmer has available to sell to Elias.

Vegetable	Amount (lbs)
Bananas	30
Grapes	35
Oranges	50
Apples	65

Toby buys all 30 pounds of the farmer's bananas. He then buys the remaining grapes according to the ideal ratios shown above.

Enter the amount of grapes, in pounds, Toby buys in the first response box.

20

Enter the amount of apples, in pounds, Toby buys in the second response box.

50