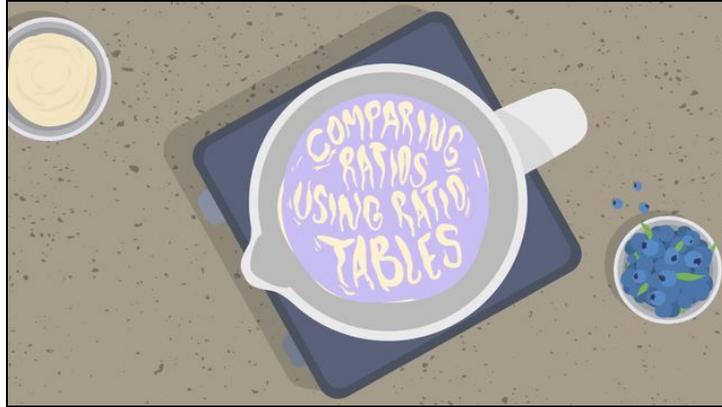


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# Comparing Ratios Using Ratio Tables



- 1 Find the simplified ratio that describes each ratio table.
- 2 Understand how to compare ratios using a ratio table.
- 3 Extend the ratio table in order to compare ratios.
- 4 Identify which values can be quickly compared and pick the solution.
- 5 Create a ratio table and compare ratios.
- 6 Sort ratio tables based on speed.
- + with many hints, answer keys, and solution approaches for all tasks



The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

## Find the simplified ratio that describes each ratio table.

Fill in the blanks to describe each table.



As the summer passes and temperatures are rising, smoothies are getting more popular!

Three new, two-ingredient smoothies have been created using new ingredients to cool you off during the summer heat.

Use the ratio table given to determine the simplified ratio.

bananas	2	4	6	8	10
mangos	1	2	3	4	5

The bananas to mangos ratio for the table is  $\frac{2}{1}$  to  $\frac{10}{5}$ . This means that for every  $\frac{2}{3}$  bananas, you need  $\frac{1}{4}$  mango.

cups of spinach	3	6	9	12	15
cups of yogurt	2	4	6	8	10

The spinach to yogurt ratio for the table is  $\frac{3}{2}$  to  $\frac{15}{10}$ . This means that for every  $\frac{3}{7}$  cups of spinach, you need  $\frac{2}{8}$  cups of yogurt.

packets of acai	5	10	15	20	25
cups of strawberries	4	8	12	16	20

The acai to strawberry ratio for the table is  $\frac{5}{4}$  to  $\frac{25}{20}$ . This means that for every  $\frac{5}{11}$  packets of Acai, you need  $\frac{12}{20}$  cups of strawberries.

## Our hints for the tasks

1  
from 6

**Find the simplified ratio that describes each ratio table.**

**1. Hint**

All ratios in a ratio table are equivalent.

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**2. Hint**

Pick a ratio from anywhere in the table and simplify by dividing both values by their greatest common factor.

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**3. Hint**

Write the ratio with the unit it represents. For example, 3 cups of blueberries to 5 cups of yogurt.

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## Solutions and solution approaches for the tasks

1  
from 6

### Find the simplified ratio that describes each ratio table.

**Answer key:** 1: 2 // 2: 1 // 3: 2 // 4: 1 // 5: 3 // 6: 2 // 7: 3 // 8: 2 // 9: 5 // 10: 4 // 11: 5 // 12: 4

- For the **Banana Mango Smoothie**, the simplified banana to mango ratio from the table is 2 to 1. This simplified ratio can be determined in many ways. One way is to pick a ratio from the table, for example 8 to 4, and simplify by dividing both values by their greatest common factor. The greatest common factor of 8 and 4 is 4, so  $8 \div 4 = 2$  and  $4 \div 4 = 1$ . This 2 : 1 ratio means for every 2 *bananas* you need 1 *mango*.
- For the **Spinach Smoothie**, the ratio from the table is 3 to 2. This means that for every 3 *cups of spinach* you need to use 2 *cups of yogurt*.
- For the **Strawberry Acai Smoothie**, the ratio is 5 to 4. This means that for every 5 *packets of acai* you need 4 *cups of strawberries*.