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Ratio Tables - Additive and Multiplicative Structure

CREAM	COFFEE
1 x3	3
+1 2 x3	+3 6
+1 3 x3	+3 9
+1 4 x3	+3 12
+1 5 x3	+3 15

$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15}$

- 1 Identify a ratio in a table.
- 2 Identify a pattern and apply it to a table of ratios.
- 3 Determine the ratio for a given table of values.
- 4 Apply the additive structure of ratio tables to extend the table.
- 5 Identify key features of a given ratio table.
- 6 Describe patterns in ratio tables.
- + 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)

Identify a ratio in a table.

Choose the correct answer.

Peppermint Syrup	Coffee
2	16
3	24
4	32
5	40

Which of the following ratios shows the relationship of peppermint syrup to coffee for Basti's holiday drink?

A

$$\frac{1}{4}$$

B

$$\frac{8}{1}$$

C

$$\frac{1}{6}$$

D

$$\frac{1}{8}$$

Our hints for the tasks

1
from 6

Identify a ratio in a table.

1. Hint

There are a few different ways to look at the table to find a pattern to help you determine the ratio. One way is to look horizontally and figure out the relationship between the syrup and coffee.

You will notice that the syrup values can all be multiplied by 8 to find the amount of coffee.

2. Hint

You can also look at the table vertically to notice that the syrup column is increasing by 1, and the coffee column is increasing by 8.

3. Hint

The multiplicative structure is 8. The additive structure is $\frac{1}{8}$.

If you notice these numbers are reciprocals.

Solutions and solution approaches for the tasks

1
from 6

Identify a ratio in a table.

Answer key: D

The ratio for the given table is $\frac{1}{8}$.

1 part peppermint syrup for every 8 parts of coffee.