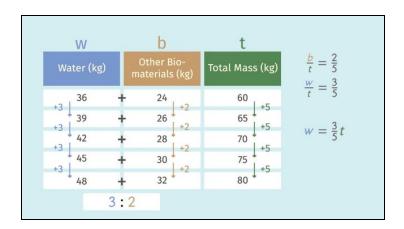
From Ratio Tables to Equations



Identify patterns in ratio tables.
Decide which statements are true given the ratio.
Writing equations given a ratio table
Complete the ratio table and find an equation
Match ratio table to equation

Given an equation fill out the ratio tables

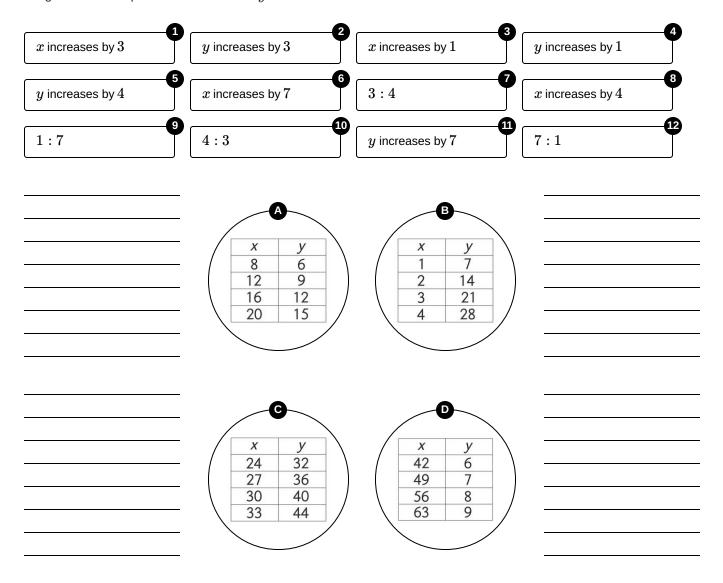
+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.



Identify patterns in ratio tables.

Drag to match the patterns and the x to y ratio to the correct table.



Hints for solving these problems



Identify patterns in ratio tables.

Hint #1

To find the ratio x to y, you must first find the *constant increase* for each column.

Hint #2

To identify the *constant increase*, look for a pattern in either the x- or y- column. Look at one column at a time. Start from the first number and ask yourself "what number am I adding to get the number below?" Repeat this for the entire column, if this value is the same for each then it is the the *constant increase* for that column.

Hint #3

Look at the table below.

\boldsymbol{x}	y
1	5
2	10
3	15
4	20

- Look at the numbers in the x-column: 1, 2, 3, 4.
- Ask yourself what number do can I add to 1 to get to 2? Repeat this for each number in the x-column:

$$2+?=3$$
.

$$3+?=4$$

- If you added the same number each time, then that is the *constant increase* for the *x*.
- Do the same for the *y*-column:

$$5+? = 10$$

$$10+?=15$$

$$15+? = 20$$

• The number you added every time should have been the same, this is the constant increase for y.

Hint #4

Look at the table below.





\boldsymbol{x}	y
1	5
2	10
3	15
4	20

You can see that the x increases by 1 and the y increases by 5, this gives an x to y ratio of 1:5.



Answers and detailed answer explanations for these problems



Identify patterns in ratio tables.

Answer key: A: 2, 8, 10 // B: 3, 9, 11 // C: 1, 5, 7 // D: 4, 6, 12

First identify the *constant increase* in both the x and y column for each table. Then, set up your x to y ratio using the *constant increases* you found.

- For the first table, constant increase for x is 4 and for y is 3. The ratio x to y for this table is 4:3.
- For the second table, the *constant increase* for x is 1 and for y is 7. The ratio x to y for this table is 1:7.
- For the third table, the *constant increase* for x is 3 and for y is 4. The ratio x to y for this table is 3:4.
- For the fourth table, the *constant increase* for x is 7 and for y is 1. The ratio x to y for this table is 7:1.

