



Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

From Ratios to Rates and Rates to Ratios



- 1 Represent ratios with a tape diagram.
- 2 Discuss ratios, unit rates, and rate units.
- 3 Calculate unit rate from a given ratio.
- 4 Identify the rate, the unit rate, and the rate unit.
- 5 Compare unit rates.
- 6 Reflect on ratios, rates, unit rates, and rate units.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.

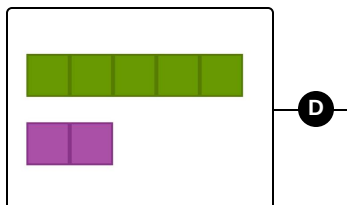
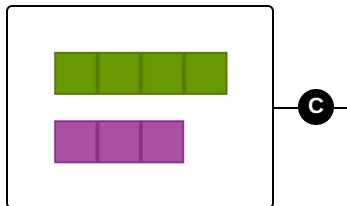
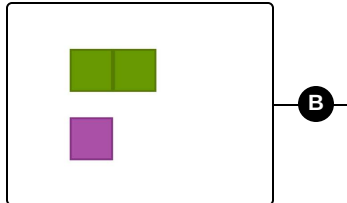
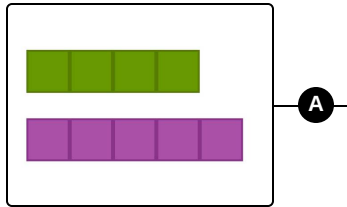


The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Represent ratios with a tape diagram.

Match each ratio to an equivalent tape diagram.



1 $12 : 9$

2 $4 : 5$

3 $25 : 10$

4 $22 : 11$



Hints for solving these problems

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of 6

Represent ratios with a tape diagram.

Hint #1

Remember that in a tape diagram, each rectangle has the same value, regardless of whether it's on the top or bottom row.

Hint #2

Remember, ratios can be reduced by dividing, or expanded by multiplying.

Hint #3

- $4 : 7$ is equivalent to $12 : 21$.
 - $16 : 4$ is equivalent to $4 : 1$.
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Answers and detailed answer explanations for these problems

1
of 6

Represent ratios with a tape diagram.

Answer key: A—2 // B—4 // C—1 // D—3

- Count the number of rectangles on the top and bottom of the tape diagram to determine the ratio.
- Reduce the given ratios by dividing in order to compare them with the ratio of the rectangles.

The ratio 4:5 is already simplified. The ratio 22:11 reduces to 2:1. The ratio 12:9 reduces to 4:3. The ratio 25:10 reduces to 5:2.