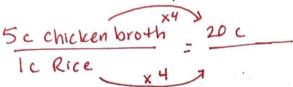
Refine Ideas About Rate Concepts

Apply It

- ➤ Complete problems 1–5.
- 1 Apply Malcolm makes chicken rice soup with his grandmother. Their family recipe calls for 5 cups of chicken broth per cup of brown rice. How many cups of brown rice are needed for 20 cups of chicken broth? Explain how you know.



You will need 4 cups of brown rice. If you increase the Chicken broth 4 times you have to increase the rice by the same amount.

Analyze At a tea shop, a package of vanilla tea weighs 1 ounce and costs \$2. Cinnamon tea is priced at 2 ounces per dollar. Use rates to show which tea is more expensive per ounce. Include a model in your response.

Cost (
$$\mathfrak{A}$$
) $\stackrel{\circ}{\vdash}$ $\stackrel{\circ}{\vdash}$

Vanilla Tea

Vanilla Tea Costs \$ 2 per ounce and Cinnamon Tea costs \$ 0.50 per ounce. The vanilla tea is more expensive

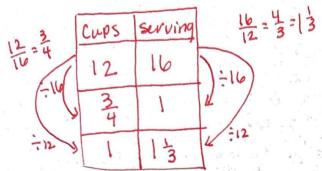
Critique A school laser printer prints 72 pages in 6 minutes. Alanna's home printer prints twice as many pages in twice as many minutes. Alanna says her printer's rate in pages per minute is two times the rate of the school printer. Do you agree or disagree? Explain.

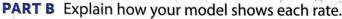
72 pg x2 144 pg 6 min x2 12 min

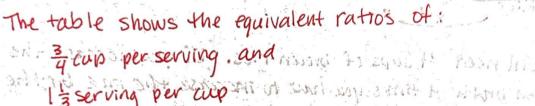
Disagree. Scaling up by two makes an equivalent rate. The two printers print at the same speed.

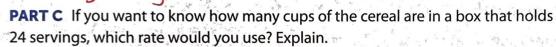
4 A box holds 12 cups of cereal. This amount is equivalent to 16 servings.

PART A Use a model to show the number of cups of cereal per serving and the number of servings per cup of cereal.









You can easily multiply the one serving by 24 and also multiply the 3 c by 24 to get the number of cup in the box

Math Journal A farm stand sells 3 quarts of peaches for \$15. Use a model to write a rate for this situation. What does this rate tell you?

\$5 for 1 quart of peaches.

and temperate and sale star trademical

The rate tells you how much you will pay per quart

End of Lesson Checklist

INTERACTIVE GLOSSARY Find the entry for rate. Rewrite the definition in your own words.

12 cups cereal 16 servings