



Practice

Video

Tools

Games

Additional Practice 12-2

Convert Customary Units of Capacity

Another Look!

Remember:

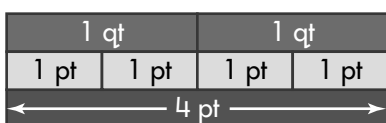
1 gallon equals 4 quarts,
1 quart equals 2 pints,
1 pint equals 2 cups, and
1 cup equals 8 fluid ounces.



How to change from one customary unit of capacity to another:

Converting from a smaller unit to a larger unit:

4 pints = _____ quarts



Operation: Divide.

You know 2 pt = 1 qt.

Find $4 \div 2$; 4 pt = 2 qt.

Converting from a larger unit to a smaller unit:

2 gallons = _____ quarts



Operation: Multiply.

You know 1 gal = 4 qt.

Find 2×4 ; 2 gal = 8 qt.

1. Convert 2 quarts to fluid ounces. Write in the missing amounts.

2 quarts = 4 pints 4 pints = 8 cups 8 cups = 64 fluid ounces

In 2–13, convert each unit of capacity.

2. 14 fl oz = $1\frac{3}{4}$ c

3. 8 gal = 32 qt

4. $3\frac{1}{4}$ pt = 52 fl oz

5. $\frac{1}{4}$ c = $\frac{1}{8}$ pt

6. $6\frac{1}{4}$ qt = $12\frac{1}{2}$ pt

7. 28 c = 7 qt

8. 2 qt = 4 pt

9. 5 c = 2 pt 1 c

10. 3 gal = 24 qt

11. 96 fl oz = 12 c

12. 4 qt = 16 c

13. $8\frac{1}{4}$ pt = $16\frac{1}{2}$ c



- 14. Number Sense** Estimate the number of pints in 445 fluid ounces. Explain your work.

Sample answer: About 30 pints; Since there are 16 fl oz in 1 pt, I estimated $445 \div 16$. I used compatible numbers and divided; $450 \div 15 = 30$.

- 15.** If you needed only 1 cup of milk, what is your best choice at the grocery store—a quart container, a pint container, or a $\frac{1}{2}$ -gallon container?

A pint container

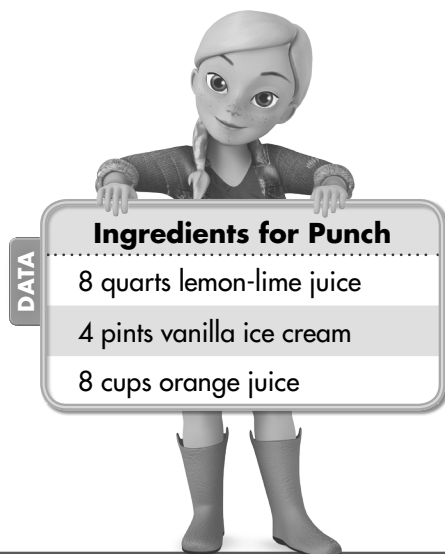
In **16** and **17**, use the recipe.

- 16.** Sadie is making punch. How many more quarts of lemon-lime juice will she use than orange juice?

6 qt

- 17. Higher Order Thinking** How many gallons of punch will Sadie make?

3 gal



- 18.** Callie bought 2 gallons of juice for \$2.58 per gallon. She sold the juice in 1-cup servings for \$0.75 each. Each serving is $\frac{1}{16}$ gallon. How much more did she get for selling the juice than she paid to buy it? Tell how you found the answer.

\$18.84; Sample answer:

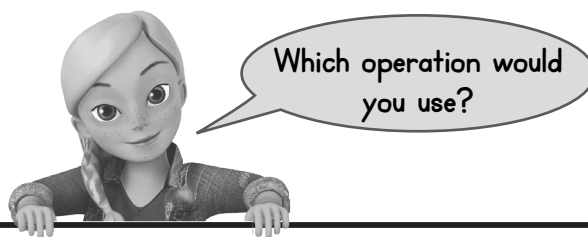
$$2 \div \frac{1}{16} = 32, 32 \times \$0.75 = \$24,$$

$$2 \times \$2.58 = \$5.16,$$

$$\$24 - \$5.16 = \$18.84.$$

- 19. Reasoning** How would you convert a measurement given in fluid ounces into pints?

Sample answer: I would divide the number of fl oz by 16 to get the number of pints.



Assessment Practice

- 20.** Choose all measurements that are equal to 4 quarts.

- ☐ 2 gallons
☐ 2 pints
☒ 8 pints
☒ 16 cups
☐ 48 fl oz

- 21.** Choose all statements that are true.

- ☒ 7 pints > 2 quarts
☐ 4 pints 1 cup > 10 cups
☐ 1 quart > 40 fl oz
☒ 1 gallon < 8 pints 1 cup
☐ 8 quarts = 32 gallons