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Student Activity Book

Converting Standard Volume Units (SAB pp. 543–544) Questions 1–10

- I. A. 2 cups
 - B. 4 cups
 - **C.** 16 cups
- **2. A.** 2 pints
 - **B.** 8 pints
- **3. A.** 4 quarts

4.*

Converting Standard Volume Units

	cup	pint	quart	gallon
number of cups in a	1	2	4	16
number of pints in a		1	2	8
number of quarts in a			1	4
number of gallons in a				1

- **5.***4 cups
- **6.***8 pints
- **7. A.***12 quarts
 - **B.***Possible response: There are 4 quarts in one gallon so I multiplied
 - 4 quarts \times 3 gallons = 12 quarts.
- **8. A.***20 cups
 - **B.***Possible response: There are 4 cups in each quart so I added 4 cups + 4 cups + 4 cups + 4 cups + 4 cups = 20 cups.
- **9.** Possible response: I do not agree with Sara. A quart will hold only 4 cups. Sara will have to use a 2-quart pitcher for her lemonade.
- 10. Possible response: No, Sam will not fill the gallon pitcher. He will have to add more. If you change all the containers to cups and add, you will have 7 cups, and a gallon holds 16 cups.

Explore				
Your smallest contain following questions.	ner is 1 cup.	Use this cor	ntainer to ans	swer the
A. How many cups	are in a pint	?		
B. How many cups				_
C. How many cups	are in a gallo	on?		_
2. Use your pint contain	ner to answe	r the followi	ng questions	
A. How many pints				
B. How many pints	are in a gallo	on?		_
3. Use your quart conta	ainer. How m	any quarts a	are in a gallor	1?
Use your answers to shaded in the table.	Questions 1	–3 to fill in t	he boxes tha	t are not
shaded in the table.	Questions 1			t are not
shaded in the table.				1
shaded in the table.	verting Stand	lard Volume	Units	1
shaded in the table.	verting Stand	lard Volume	Units	1
shaded in the table. Com	verting Stand	lard Volume	Units	gallo
shaded in the table. Com number of cups in a number of pints in a	verting Stand	lard Volume	Units	1
number of cups in a number of pints in a number of quarts in a number of gallons in a	cup	lard Volume pint	Units quart	1
number of cups in a number of quarts in a	cup answer the	pint pint	Units quart	1

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Name	_	Date	
7.		How many quarts are in 3 gallons? Show or tell how you found your answer.	
8.		How many cups are in 5 quarts? Write a number sentence to show how you found your answer.	
		eck-In: Questions 9-10 ra is making lemonade. Her recipe is for 8 cups of lemonade.	
		e decided to use a quart pitcher. Do you agree with Sara? y or why not?	
10.	cor of	m wanted to fill a gallon container with water using different ntainers. First he poured in 1 cup of water. Then he poured in 1 pint water, and finally he added 1 quart of water. Did he fill the gallon ntainer with water? Show or tell how you know.	Copyright ® Kendall Hunt Publishing Company
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^{*}Answers and/or discussion are included in the lesson.

volume to solve these problems. 2 cups = 1 pint 2 pints = 1 quart 4 quarts = 1 gallor

1. Ms. Alfonso is making lemonade in a 5-gallon container for the class picnic. She is using a recipe that makes a 2-quart pitcher of lemonade. Fill in the table below to show how the volume of the lemonade changed each time Ms. Alfonso added a 2-quart pitcher to the 5-gallon container.

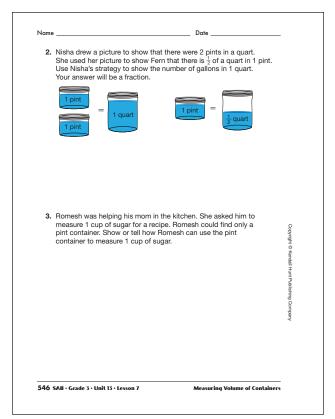
Volume of Lemonade

Number of Recipes	Quarts	Gallons
1	2	1/2
2		1
3	6	
4		2
5		2½
6	12	
7		
8		4
10		
12	24	

Measuring Volume of Containers

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Homework (SAB pp. 545-546) Questions 1-3

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Number of Recipes	Quarts	Gallons
1	2	1/2
2	4	1
3	6	1 1 2
4	8	2
5	10	$2\frac{1}{2}$
6	12	3
7	14	3 1/2
8	16	4
9	18	4 1/2
10	20	5

- **2.** Possible response: There will be $\frac{1}{4}$ of a gallon in one quart.
- **3.** Possible response: Romesh can fill one half of the pint container, and that will be the same as 1 cup.