

Volume and capacity word problems (customary units)

Grade 4 Word Problems Worksheet

Hint: 16 ounces = 2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon

1. The capacity of a pot is 1 quart and the volume of a can of soup is 8 oz. How many cans of soup can the pot hold?

2. There are 3 cups of orange juice in a pitcher. If we add 3 oz of lemon juice, what is the volume (measured in oz) of the mixture?

3. A small carton of milk contains 12 oz of milk. 12 cartons of milk are poured into a big mixing bowl. How much milk (measured in pints) is in the bowl?



Answers

1. $1 \text{ quart} = 2 \text{ pints} = 32 \text{ oz}$
 $32 \div 4 = 4$
The pot can hold 4 cans of soup.
2. $3 \text{ cups} = 24 \text{ oz}$
 $24 + 3 = 27$
The volume of the mixture is 27 oz.
3. $12 \times 12 = 144$
 $144 \div 16 = 9$
 $144 \text{ oz} = 9 \text{ pints}$
There are 9 pints of milk in the bowl.
4. $1 \text{ gallon} = 16 \text{ cups}$
 $2 \text{ quarts} = 8 \text{ cups}$
 $16 - 8 - 3 = 5$
There are 5 cups of gravy left.
5. $2 \text{ gallons} = 8 \text{ quarts}$
 $8 - 3 = 5$
The difference in capacity between the two pots is 5 quarts.
6. $2 \text{ pints} = 32 \text{ oz}$
The tall glass holds more.