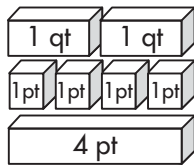


Converting Customary Units of Capacity

How to change a capacity measurement from one unit to another

Converting a capacity measurement from a smaller unit to a larger unit

$$4 \text{ pints} = \underline{\hspace{2cm}} \text{ quarts}$$



Think: If I measure the same capacity using a larger unit, I will need a smaller number of units.

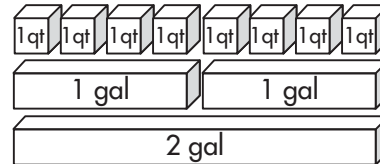
Operation: Divide.

You know $2 \text{ pt} = 1 \text{ qt}$.

Find $4 \div 2$; $4 \text{ pt} = 2 \text{ qt}$

Converting a capacity measurement from a larger unit to a smaller unit

$$2 \text{ gallons} = \underline{\hspace{2cm}} \text{ quarts}$$



Think: If I measure the same capacity using a smaller unit, I will need a larger number of units.

Operation: Multiply.

You know $1 \text{ gal} = 4 \text{ qt}$.

Find 2×4 ; $2 \text{ gal} = 8 \text{ qt}$

Relationships Among Customary Units of Capacity

Ounce	Cup	Pint	Quart	Gallon
8 fl oz	= 1 c			
	2 c	= 1 pt		
		2 pt	= 1 qt	
			4 qt	= 1 gal

Complete.

- $16 \text{ fl oz} = \underline{\hspace{2cm}} \text{ c}$
- $8 \text{ gal} = \underline{\hspace{2cm}} \text{ qt}$
- $10 \text{ c} = \underline{\hspace{2cm}} \text{ pt}$
- $6 \text{ qt} = \underline{\hspace{2cm}} \text{ pt}$
- Estimation** A vat has a capacity of 642 fl oz. Estimate its capacity in cups.