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## 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 pints $=$ $\qquad$ quarts


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

Operation: Divide.
You know $2 \mathrm{pt}=1 \mathrm{qt}$.
Find $4 \div 2 ; 4 \mathrm{pt}=2 \mathrm{qt}$

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

2 gallons = $\qquad$ quarts


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

Operation: Multiply.
You know $1 \mathrm{gal}=4 \mathrm{qt}$.
Find $2 \times 4 ; 2 \mathrm{gal}=8 \mathrm{qt}$

| Relationships Among Customary Units of Capacity |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ounce | Cup | Pint | Quart | Gallon |  |
| 8 fl oz | $=1 \mathrm{c}$ |  |  |  |  |
|  | 2 c | $=1 \mathrm{pt}$ |  |  |  |
|  |  |  |  |  |  |
|  |  | 2 pt | $=1 \mathrm{qt}$ |  |  |

Complete.

1. $16 \mathrm{fl} \mathrm{oz}=$ $\qquad$ c
2. $8 \mathrm{gal}=$ $\qquad$ qt
3. $10 \mathrm{c}=$ $\qquad$ pt
4. $6 \mathrm{qt}=$ $\qquad$ pt
5. Estimation A vat has a capacity of 642 fl oz . Estimate its capacity in cups.

## Converting Customary Units of Capacity

Convert each unit.

1. $2 \mathrm{qt}=\square \mathrm{pt}$
2. $5 \mathrm{c}=$ $\qquad$ pt $\qquad$ c
3. $3 \mathrm{gal}=$ $\qquad$ 4. $96 \mathrm{fl} \mathrm{oz}=$ $\qquad$ c
4. $4 \mathrm{qt}=$ $\qquad$ 6. $9 \mathrm{pt}=$ $\qquad$ c

Solve.
7.
5 c 4 fl oz
8. $\quad 7 \mathrm{gal} 2 \mathrm{qt}$
+3 gal 1 qt
9. 6 qt 1 pt
-2 qt 1 pt
10. Estimation Estimate the number of pints in 445 ounces.
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11. If you needed only 1 c of milk, what is your best choice at the grocery store-a quart container, a pint container, or a $\frac{1}{2}$ gal container?
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12. Which of the following is equivalent to 1 c ?
A 4 floz
B 2 pt
C 8 floz
D 4 qt
13. Writing to Explain Explain how you would convert a measurement given in ounces into pints.
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