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## Another Look!

Remember:
To change from liters to


## Additional

 Practice 12-5 Convert Metric Units of CapacityHow to change from one metric unit of capacity to another:

Converting a capacity from a smaller to a larger metric unit:

2,000 milliliters $=$ $\qquad$ liters


You know $10^{3} \mathrm{~mL}=1 \mathrm{~L}$, so divide.
Find $2,000 \div 1,000 ; 2,000 \mathrm{~mL}=2 \mathrm{~L}$.

Converting a capacity from a larger to a smaller metric unit:

3 liters $=$ $\qquad$ milliliters


You know $1 \mathrm{~L}=10^{3} \mathrm{~mL}$, so multiply.
Find $3 \times 1,000 ; 3 \mathrm{~L}=3,000 \mathrm{~mL}$.

In 1-9, convert each unit of capacity.

1. $5 \mathrm{~L}=5,000 \mathrm{~mL}$
2. $13,000 \mathrm{~mL}=13 \mathrm{~L}$
3. $1.6 \mathrm{~L}=1,600 \mathrm{~mL}$
4. $4,750 \mathrm{~mL}=4.75 \mathrm{~L}$
5. $950 \mathrm{~mL}=0.95 \mathrm{~L}$
6. $0.4 \mathrm{~L}=400 \mathrm{~mL}$
7. $2.7 \mathrm{~L}=\underline{2,700 \mathrm{~mL}}$
8. $8,400 \mathrm{~mL}=8.4 \mathrm{~L}$
9. $0.071 \mathrm{~L}=\underline{71 \mathrm{~mL}}$

In 10 and 11, complete each table to show equivalent measures.
10.

| liters | 90 | 9 | 0.9 |
| :--- | :---: | :---: | :---: |
| milliliters | 90,000 | 9,000 | 900 |

11. 

| milliliters | 250 | 2,500 | 25,000 |
| :--- | :---: | :---: | :---: |
| liers | $\mathbf{0 . 2 5}$ | $\mathbf{2 . 5}$ | $\mathbf{2 5}$ |

12. Construct Arguments Tell whether you would use multiplication or division to convert milliliters to liters. Explain your answer.
Sample answer: I would divide by 1,000 to convert milliliters to liters, because $1,000 \mathrm{~mL}=1 \mathrm{~L}$.
13. Algebra Complete the following table. Then write an equation that can be used to convert $p$ pounds to o ounces.
Sample answer: $\mathrm{p} \times 16=0$

| Pounds | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ounces | 48 | $\mathbf{6 4}$ | 80 | $\mathbf{9 6}$ | $\mathbf{1 1 2}$ |

15. You are preparing for a breakfast party and need enough milk for 20 people. Each person will drink about 200 milliliters of milk. Which is the better estimate of the amount of milk you should prepare: 400 milliliters or 4 liters? Why?
$20 \times 200=4,000 \mathrm{~mL}$, so you need 4 L.
16. Higher Order Thinking Suppose you have the three cups shown at the right. List two different ways you can measure exactly 1 liter.
Answers will vary. Sample answer: You can measure two $500-\mathrm{mL}$ cups, or you can measure three $300-\mathrm{mL}$ cups and one 100-mL cup.


## Assessment Practice

17. A community center has a swimming pool that holds 29,000,000 milliliters of water. How many liters of water can the pool hold?
(A) $290,000,000 \mathrm{~L}$
(B) $2,900,000 \mathrm{~L}$
(C) $290,000 \mathrm{~L}$
(D) $29,000 \mathrm{~L}$
18. There are 1.5 liters of punch in a pitcher. How many milliliters of punch are in the pitcher?
(A) 100 mL
(B) $1,500 \mathrm{~mL}$
(C) $1,000 \mathrm{~mL}$
(D) $15,000 \mathrm{~mL}$
