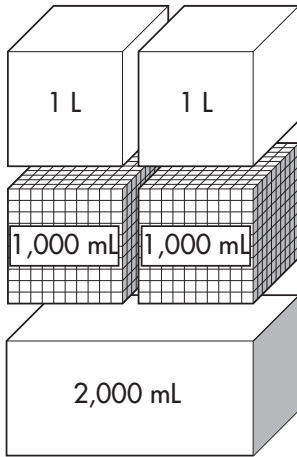


Converting Metric Units of Capacity

How to change a capacity measurement from one metric unit to another:

Converting a capacity from a smaller to a larger metric unit

2,000 milliliters = _____ liters



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

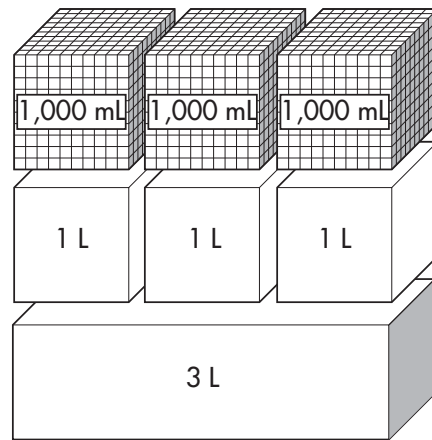
Operation: Divide.

You know 1,000 mL = 1 L.

Find $2,000 \div 1,000$; 2,000 mL = 2 L

Converting a capacity from a larger to a smaller metric unit

3 liters = _____ milliliters



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

Operation: Multiply.

You know 1 L = 1,000 mL.

Find $3 \times 1,000$; 3 L = 3,000 mL

Relationships Between Metric Units of Capacity		
Liter		Millimeter
1 L	=	1,000 mL

Complete.

1. 6 L = _____ mL

2. 4,000 mL = _____ L

3. 8,000 mL = _____ L

4. 91,000 mL = _____ L

Estimation Circle the capacity that is most reasonable for each container.

5. soup bowl

2 L or 300 mL

6. bathtub

200 L or 34,000 mL

Name _____

Converting Metric Units of Capacity

Convert each unit.

1. 5 L = _____ mL
2. 13,000 mL = _____ L
3. 16 L = _____ mL
4. 4,000 mL = _____ L
5. 9,000 mL = _____ L
6. 8 L = _____ mL
7. You are preparing for a breakfast party and need enough milk for 20 people. Each person will drink about 200 mL of milk. Which is the best estimate of the amount of milk you should prepare: 400 mL or 4 L? Why?

Which capacity is most reasonable for each container?

8. coffee mug 300 mL or 3 L _____
9. vase 20 mL or 2 L _____
10. cleaning bucket 500 mL or 5 L _____
11. Which of the following is equal to 6,000 mL?

 A 6 L **B** 60 L **C** 600 L **D** 60,000 L
12. **Writing to Explain** Suppose you have a 100-mL cup, a 300-mL cup, and a 500-mL cup. List two different ways you can measure exactly 1 L.

