LESSON MAKER PRO

Volume Switch

Move between liters and milliliters.

GRADE 5 · 5.MG.1.c.iii

5.MG.1.c.iii "Given the equivalent metric measure of one unit, in a contextual problem, determine the equivalent measurement within the metric system: liquid volume (milliliters and liters)."

NAME _____ DATE _____

THE BIG IDEA

One liter equals 1,000 milliliters. To change liters to milliliters, multiply by 1,000. To change milliliters to liters, divide by 1,000.

WORKED EXAMPLE

Change 4 L to milliliters.

1. Start with 4 L.
2. Multiply 4 by 1,000.
3. 4 x 1,000 = 4,000.

Answer: 4 L = 4,000 mL

PRACTICE 6 problems

1 Change 3,600 mL to liters.

ANSWER _____

2 Change 9 L to milliliters.

ANSWER _____

3 Change 12 L to milliliters.

ANSWER _____

4 Change 2,450 mL to liters.

ANSWER _____

5 Change 800 mL to liters.

ANSWER _____

6 Change 6 L to milliliters.

ANSWER _____

APPLY IT Show your work

1 The school science club fills a water container with 13 L of water for its plant experiment. How many milliliters of water are in the container?

WORK SPACE

ANSWER _____

2 A student makes 5,250 mL of fruit punch for a class celebration. How many liters of fruit punch is that?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A drink cooler holds 3,000 mL. It already has 1.6 L of lemonade inside. Then 350 mL more lemonade is added. How many milliliters of space are left in the cooler?

WORK SPACE AND ANSWER

ANSWER KEY

Volume Switch

GRADE 5 · 5.MG.1.c.iii

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Change 3,600 mL to liters.	**3.6 L**
2	Change 9 L to milliliters.	**9,000 mL**
3	Change 12 L to milliliters.	**12,000 mL**
4	Change 2,450 mL to liters.	**2.45 L**
5	Change 800 mL to liters.	**0.8 L**
6	Change 6 L to milliliters.	**6,000 mL**

PART 2 · APPLY IT

1. **13,000 mL** Multiply 13 liters by 1,000 milliliters per liter. 13 x 1,000 = 13,000 mL.
2. **5.25 L** Divide 5,250 milliliters by 1,000. 5,250 ÷ 1,000 = 5.25 L.

CHALLENGE

1,050 mL

Accept equivalent decimal forms with needed trailing zeros, such as 3.60 L for 3.6 L. Students should include the correct unit in each answer.