

## Homework & Practice 13-5

### Equivalence with Metric Units of Capacity and Mass

### Another Look!

Convert each unit.

To convert from  
liters to milliliters,  
multiply by 1,000.



To convert from  
kilograms to grams,  
multiply by 1,000.

Convert 8 liters to milliliters.

$$1 \text{ liter} = 1,000 \text{ milliliters}$$

$$8 \times 1,000 = 8,000$$

$$8 \text{ liters} = 8,000 \text{ milliliters}$$

Convert 9 grams to milligrams.

$$1 \text{ gram} = 1,000 \text{ milligrams}$$

$$9 \times 1,000 = 9,000$$

$$9 \text{ grams} = 9,000 \text{ milligrams}$$

For 1–6, convert each unit.

1. 2 liters = \_\_\_\_\_ milliliters

2. 8 grams = \_\_\_\_\_ milligrams

3. 3 kilograms = \_\_\_\_\_ grams

4. 7 liters = \_\_\_\_\_ milliliters

5. 4 grams = \_\_\_\_\_ milligrams

6. 8 kilograms = \_\_\_\_\_ grams

For 7–8, complete each table.

7.

Liters	Milliliters
5	
6	
7	
8	
9	

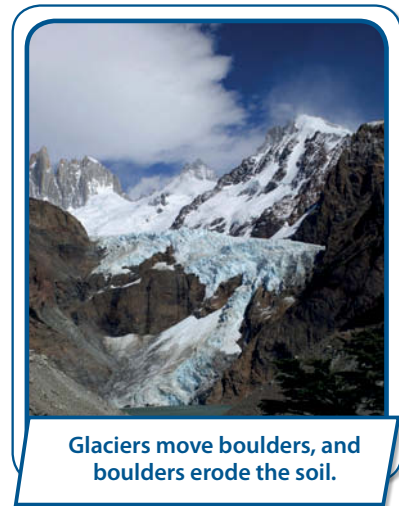
8.

Kilograms	Grams
4	
5	
6	
7	
8	

9. **A-Z Vocabulary** Fill in the blank:  
\_\_\_\_\_ is the amount of matter something contains.  
\_\_\_\_\_ is a measure of how heavy an object is.

10. Jake walks dogs and delivers papers to earn money. This month, he earned \$52 delivering papers and \$44 walking dogs. Each month, he puts half of his money into his savings account. How much money did Jake save this month?

11. **Math and Science** A glacier moved a boulder with a mass of 9 kilograms. What was the mass of the boulder in grams?



12. Another glacier moved a boulder that weighed 2 tons. How many pounds did the boulder weigh?

13. **MP.2 Reasoning** Hannah has 3 boxes of rice. One box contains 3 kilograms, the second box contains 150 grams, and the third box contains 500 grams. She wants to divide the rice equally into 5 bags. How much rice should she put into each bag? Explain.

14. **Higher Order Thinking** Rob has a 2-liter bottle of iced tea. He poured an equal amount of the iced tea into 8 containers. How many milliliters did Rob pour into each container?

## Common Core Assessment

15. Which shows a correct comparison?

- (A) 1,000 liters < 1,000 milliliters
- (B) 40 liters = 400 milliliters
- (C) 5,000 milliliters = 5 liters
- (D) 900 milliliters > 900 liters

16. Which shows a correct comparison?

- (A) 5 grams = 500 milligrams
- (B) 1 gram < 10 milligrams
- (C) 910 kilograms < 910 grams
- (D) 2 kilograms > 2 grams