

Name \_\_\_\_\_

## Metric Units of Mass and Liquid Volume

COMMON CORE STANDARDS CC.4.MD.1, CC.4.MD.2

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Complete.

1. 5 liters = 5,000 milliliters

Think: 1 liter = 1,000 milliliters,  
so 5 liters =  $5 \times 1,000$  milliliters, or 5,000 milliliters

2. 3 kilograms = \_\_\_\_\_ grams

3. 8 liters = \_\_\_\_\_ milliliters

4. 7 kilograms = \_\_\_\_\_ grams

5. 9 liters = \_\_\_\_\_ milliliters

6. 2 liters = \_\_\_\_\_ milliliters

7. 6 kilograms = \_\_\_\_\_ grams

Compare using  $<$ ,  $>$ , or  $=$ .

8. 8 kilograms  850 grams

9. 3 liters  3,500 milliliters

10. 1 kilogram  1,000 grams

11. 5 liters  520 milliliters

### Problem Solving



12. Kenny buys four 1-liter bottles of water. How many milliliters of water does Kenny buy?

\_\_\_\_\_

13. Mrs. Jones bought three 2-kilogram packages of flour. How many grams of flour did she buy?

\_\_\_\_\_

14. Colleen bought 8 kilograms of apples and 2.5 kilograms of pears. How many more grams of apples than pears did she buy?

\_\_\_\_\_

15. Dave uses 500 milliliters of juice for a punch recipe. He mixes it with 2 liters of ginger ale. How many milliliters of punch does he make?

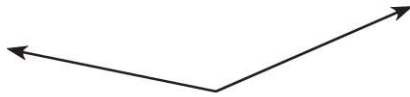
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**Lesson Check** (CC.4.MD.1, CC.4.MD.2)

- During his hike, Milt drank 1 liter of water and 1 liter of sports drink. How many milliliters of liquid did he drink in all?
  - (A) 20 milliliters
  - (B) 200 milliliters
  - (C) 2,000 milliliters
  - (D) 20,000 milliliters
- Larinda cooked a 4-kilogram roast. The roast left over after the meal weighed 3 kilograms. How many grams of roast were eaten during that meal?
  - (A) 7,000 grams
  - (B) 1,000 grams
  - (C) 700 grams
  - (D) 100 grams

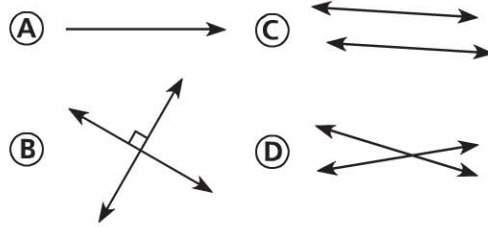
**Spiral Review** (CC.4.MD.1, CC.4.MD.6, CC.4.G.1)

- Use a protractor to find the angle measure. (Lesson 11.3)



- (A)  $15^\circ$
- (B)  $35^\circ$
- (C)  $135^\circ$
- (D)  $145^\circ$

- Which of the following shows parallel lines? (Lesson 10.3)



- Carly bought 3 pounds of birdseed. How many ounces of birdseed did she buy? (Lesson 12.3)
  - (A) 30 ounces
  - (B) 36 ounces
  - (C) 42 ounces
  - (D) 48 ounces
- A door is 8 decimeters wide. How wide is the door in centimeters? (Lesson 12.6)
  - (A) 8 centimeters
  - (B) 80 centimeters
  - (C) 800 centimeters
  - (D) 8,000 centimeters