

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?

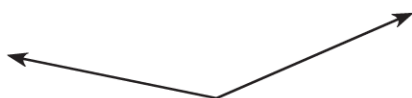
15. Dave uses 500 milliliters of juice for a punch recipe. He mixes it with 2 liters of ginger ale. How many milliliters of punch does he make?

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

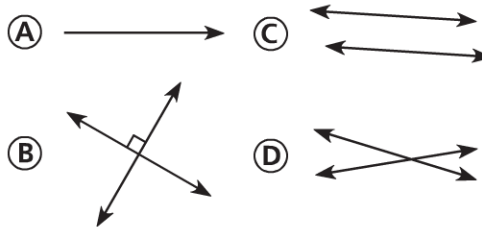
Spiral Review (CC.4.MD.1, CC.4.MD.6, CC.4.G.1)

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



- (A) 15°
- (B) 35°
- (C) 135°
- (D) 145°

- 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