

Name: _____

Converting Liters and Milliliters

Complete the tables below and answer the questions that follow.

liters	1		9	
milliliters		5,000		30,000

rule: multiply by 1,000

milliliters	4,000			550,000
liters		6	23	

rule: divide by 1,000

- a. How many liters are in 5,000 milliliters? _____
- b. How many milliliters are in 23 liters? _____
- c. How many milliliters are in 9 liters? _____
- d. How many liters are in 550,000 milliliters? _____
- e. How many liters are in 20,000 milliliters? _____
- f. How many milliliters are in 100 liters? _____
- g. How many milliliters are in 11 liters? _____
- h. How many liters are in 890,000 milliliters? _____
- i. Brenda has a 1 liter bottle of shampoo that is only half-full. About how many milliliters of shampoo does she have in the bottle? _____
- j. Mr. Perkins changed the oil in his car. He bought 6 liters of oil. He put 4,500 mL in his car. How many milliliters of oil did he have left? _____

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Grams and Kilograms

A **gram** (g) is used to measure the weight or mass of very light objects.
A small paperclip weighs about a gram.

A **kilogram** (kg) is used to measure the weight or mass of heavier objects.
A one-liter bottle of water weighs about a kilogram.

1 kilogram = 1,000 grams

$$3 \text{ kg} = \underline{\quad} \text{ g}$$

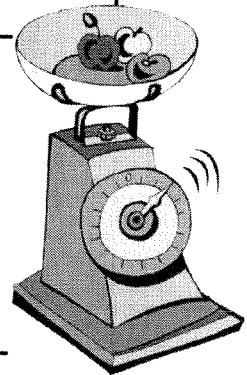
$$6,000 \text{ g} = \underline{\quad} \text{ kg}$$

$$3 \text{ kg} \times 1,000 = 3,000 \text{ g}$$

$$6,000 \div 1,000 = 6 \text{ kg}$$

$$3 \text{ kg} = 3,000 \text{ g}$$

$$6,000 \text{ g} = 6 \text{ kg}$$



- A squirrel weighs about...
a. 10 grams **b.** 100 grams **c.** 1 kilogram
- A cell phone weighs about...
a. 1 gram **b.** 120 grams **c.** 2 kilograms
- A watermelon weighs about...
a. 500 grams **b.** 2 kilograms **c.** 13 kilograms
- 8 kg = _____ g
- 2,000 g = _____ kg
- 5,000 g = _____ kg
- 7 kg = _____ g
- 10,000 g = _____ kg
- 30 kg = _____ g
- Jan's cat weighs 4 kg. Carl's cat weighs 2,900 grams. Whose cat is heavier? Explain.

Measuring Worksheet 3

Convert the measuring units as indicated.

1a. **5 kg = _____ g**

1b. **8,000 g = _____ kg**

2a. **2,000 g = _____ kg**

2b. **8,000 ml = _____ L**

3a. **4 kg = _____ g**

3b. **3,000 g = _____ kg**

4a. **7 L = _____ ml**

4b. **10,000 ml = _____ L**

5a. **9 L = _____ ml**

5b. **7,000 g = _____ kg**

6a. **3,000 ml = _____ L**

6b. **6 L = _____ ml**

7a. **4,000 ml = _____ L**

7b. **10,000 g = _____ kg**

8a. **2,000 ml = _____ L**

8b. **1 L = _____ ml**

9a. **5,000 ml = _____ L**

9b. **1 kg = _____ g**

10a. **9,000 g = _____ kg**

10b. **6,000 g = _____ kg**

Answer Key

Measuring Worksheet 4

Convert the measuring units as indicated.

1a. **24 oz = _____ C**

1b. **16 oz = _____ C**

2a. **2 gal = _____ qt**

2b. **4,000 lb = _____ T**

3a. **56 oz = _____ C**

3b. **4 pt = _____ C**

4a. **8,000 lb = _____ T**

4b. **14,000 lb = _____ T**

5a. **28 qt = _____ gal**

5b. **6,000 lb = _____ T**

6a. **4 pt = _____ qt**

6b. **8 T = _____ lb**

7a. **40 oz = _____ C**

7b. **64 oz = _____ C**

8a. **8 oz = _____ C**

8b. **128 oz = _____ lb**

9a. **1 T = _____ lb**

9b. **7 lb = _____ oz**

10a. **8 pt = _____ qt**

10b. **4 lb = _____ oz**

Answer Key