

Name _____

Reteaching

16-2

Converting Metric Measures

Changing from one metric unit to another:

To change from a larger unit to a smaller unit, multiply by a power of ten.

$$3.8 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$$

A liter is a larger unit than a milliliter. To change from liters to milliliters, multiply.

$$1 \text{ L} = 1,000 \text{ mL}$$

$$3.8 \times 1,000 = 3,800$$

$$3.8 \text{ L} = 3,800 \text{ mL}$$

To change from a smaller unit to a larger unit, divide by a power of ten.

$$100 \text{ m} = \underline{\hspace{2cm}} \text{ km}$$

The meter is a smaller unit than the kilometer. To change from meters to kilometers, divide.

$$1,000 \text{ m} = 1 \text{ km}$$

$$100 \div 1000 = 0.1$$

$$100 \text{ m} = 0.1 \text{ km}$$

Reteaching 16-2

Name the most appropriate metric unit for each measurement.

1. mass of a cow

2. length of a carrot

3. capacity of a thimble

Complete.

4. $45 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

5. $3450 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

6. $4.5 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

7. $1.68 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

8. $28 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

9. $7,658 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

10. $600 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

11. $5,000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

12. $5.1 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

13. $1,780 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

14. $0.780 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$


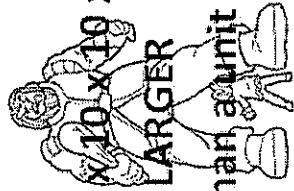

15. $4,300 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

16. $9,000 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

17. $8,000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

18. **Reasoning** It is recommended that people have 1 g of calcium each day. How many milligrams of calcium is that?

Metric Conversion

King	Henry	Died	Unusually 	Drinking	Chocolate	Milk
Kilo 10 x 10 x 10 x LARGER than a unit 	Hecto 10 x 10 x LARGER than a unit	Deca 10 x LARGER than a unit	* Unit * Meter <i>(length)</i> Liter <i>(liquid volume)</i> Gram <i>(mass/weight)</i> 1 unit	Deci 10 x SMALLER than a unit	Centi 10 x 10 x SMALLER than a unit	Milli 10 x 10 x 10 x SMALLER than a unit 
1 kilo = 1,000 units km = kilometer kL = kiloliter kg = kilogram	1 hecto = 100 units hm = hectometer hL = hectoliter hg = hectogram	1 deca = 10 units dam = decameter daL = decaliter dag = decagram	m = meter L = liter g = gram	10 deci = 1 unit dm = decimeter dL = deciliter dg = decigram	100 centi = 1 unit cm = centimeter cL = centiliter cg = centigram	1,000 milli = 1 unit mm = millimeter mL = milliliter mg = milligram

Example: 5 kilo 50 hecto 500 deca 5,000 units 50,000 deci 500,000 centi 5,000,000 milli

