## **Metric Mania**

## LENGTH:

- 1. What is the basic unit for length?
- 2. Circle the best unit for measuring each distance:
  - a. Thickness of an eyelash: mm cm m
  - b. Length of a pencil: cm km m
- 3. Use a meter stick or metric ruler to find each measurement.
  - a. Width of this page \_\_\_\_\_ mm or \_\_\_\_ cm
  - b. Length of an unsharpened pencil \_\_\_\_\_
- 4. Convert the following measurements:
  - a. 34 mm = \_\_\_\_ cm

b.  $3 \text{ km} = ___ \text{m}$ 

c.  $234 \text{ cm} = ___ \text{m}$ 

d.  $35 \text{ m} = ___ \text{mm}$ 

## MASS:

- 5. What is the basic unit for mass? \_\_\_\_\_
- 6. Circle the best unit for measuring each mass:
  - a. Amount of spices in a batch of cookies: mg kg
  - b. Your mass: mg kg
  - c. Mass of 10 pennies: mg kg
- 7. Use a triple-beam balance to find each measurement.
  - a. Mass of an ink pen \_\_\_\_\_ g
- b. Mass of a can of soda \_\_\_\_\_ g

- 8. Convert the following measurements:
  - a.  $16 \text{ mg} = \underline{\hspace{1cm}} g$

b.  $4.7 \text{ kg} = \underline{\hspace{1cm}} \text{g}$ 

- c.  $12,345 g = ___ kg$
- d.  $2 g = _{mg}$

## **TEMPERATURE:**

- 15. What is the basic unit for temperature?
- 16. What are the freezing and boiling points for water on this scale? \_\_\_\_\_
- 17. Circle the best choice:
  - 0 o 35 o a. Temperature on a hot summer's day: 90 o
  - 20 o b. Room temperature: - 20 ° 0 o
- 18. Convert the following measurements.
  - a.  $90^{\circ} F = _{\circ} C$

b.  $45^{\circ} F = {}^{\circ} C$ 

	LUME: What is the basic unit for volume?		
20.	Circle the best unit for measuring each	n volume:	
	a. Amount of soda in 1 can: mL	L L	
	b. Water in a bathtub: mL I	L	
21.	Determine the volume for each object.		
	a. Use L x W x H to find the volum	me of a chalkboard eraser cm <sup>3</sup>	
	b. Use water displacement to find t	the volume of four marbles	
		ml or cm <sup>3</sup>	
22.	Convert the following measurements:		
	a. $160 \text{ mL} = \_\_\_\_L$	b. $23 \text{ kL} = \_\_\_\_ \text{L}$	
	c. $456 \text{ cL} = \text{mL}$	c. $120 \text{ mL} = \underline{\qquad} \text{ cm}^3$	
TIN 23.	<b>ME:</b> What is the basic unit for measuring ti	ime?	
24.	How many seconds are in:		
	a. 1 minute?	b. 6 hours? c. 2 days?	_
DE	NSITY:		
28.	-	densities float, sink, or remain suspended in tap	
	a. 0.85 g/mL	b. 1.0 g/mL	
	c. 1.4 g/mL	d. 0.92 g/mL	