Metric Mania

Name______________________________________

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 m km

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 ____________ cm

4. Convert the following measurements:
   a. 34 mm = _______ cm
   b. 3 km = _______ m
   c. 234 cm = _______ m
   d. 35 m = _______ 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 g kg
   b. Your mass: mg g kg
   c. Mass of 10 pennies: mg g 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 mg = _______ g
   b. 4.7 kg = _______ 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:
   a. Temperature on a hot summer’s day: 0 ° 35 ° 90 °
   b. Room temperature: -20 ° 0 ° 20 °

18. Convert the following measurements.
   a. 90°F = _______ °C
   b. 45°F = _______ °C

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VOLUME:
19. What is the basic unit for volume? _______________

20. Circle the best unit for measuring each volume:
   a. Amount of soda in 1 can:    mL    L
   b. Water in a bathtub:         mL    L

21. Determine the volume for each object.
   a. Use L x W x H to find the volume of a chalkboard eraser   ___________ cm³
   b. Use water displacement to find the volume of four marbles
       ___________ ml or ___________ cm³

22. Convert the following measurements:
   a. 160 mL  = _______ L  b. 23 kL = _______ L
   c. 456 cL  = _______ mL  c. 120 mL = _______ cm³

TIME:
23. What is the basic unit for measuring time? _______________

24. How many seconds are in:
   a. 1 minute? _______  b. 6 hours? _______  c. 2 days? _______

DENSITY:
28. Would the objects with the following densities float, sink, or remain suspended in tap water?
   a. 0.85 g/mL _________________  b. 1.0 g/mL _________________
   c. 1.4 g/mL _________________  d. 0.92 g/mL _________________