

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

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 $L \times W \times H$ to find the volume of a chalkboard eraser _____ cm^3
 - b. Use water displacement to find the volume of four marbles
_____ ml or _____ cm^3
22. Convert the following measurements:
- a. 160 mL = _____ L
 - b. 23 kL = _____ L
 - c. 456 cL = _____ mL
 - c. 120 mL = _____ cm^3

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 _____