

Reinforcement Standards of Measurement

Directions: Complete the table below by supplying the missing information.

Measurement	Base unit	Symbol
1.	meter	5.
mass	3.	6.
2.	second	7.
temperature	4.	8.

Directions: In each of the following, circle the units that would most likely be used to express each kind of measurement. You may circle more than one answer for each term.

9. volume of a solid: mL m³ cm³ L
10. volume of a liquid: mL mg cm³ L
11. density of a material: g g/cm³ kg/m³ L
12. temperature: °K K °C Kg
13. mass: kg K cm³ mg
14. time: kg K s mm
15. length: K km m cm

Directions: For each pair of equations, write the letter of the equation that expresses an equal value.

- _____ 16. a. 1 L = 1 dm³ b. 1 L = 1 cm³
- _____ 17. a. 1 mL = 1 cm³ b. 1 cm³ = 1 L
- _____ 18. a. 0°C = -273 K b. 0 K = -273°C
- _____ 19. a. 1 kg = 100 g b. 1,000 g = 1 kg
- _____ 20. a. 400 cm = 4.0 m b. 400 cm = 0.40 m
- _____ 21. a. 1 dm = 10 m b. 1 dm = 0.10 m
- _____ 22. a. 100°C = 373 K b. 373 K = 10°C

Directions: Calculate the volume of the box in the diagram.

23. _____

