

Assessment

Measurements and Calculations

Section Quiz: Units of Measurement

In the space provided, write the letter of the term or phrase that best completes each sentence or best answers each question.

- _____ 1. The unit m^3 is used to express
a. length.
b. mass.
c. volume.
d. density.
- _____ 2. SI base units for length and mass are
a. centimeter and gram.
b. meter and gram.
c. centimeter and kilogram.
d. meter and kilogram.
- _____ 3. The abbreviations for units of length in order from smallest to largest are
a. m, cm, mm, km.
b. mm, m, cm, km.
c. km, mm, cm, m.
d. mm, cm, m, km.
- _____ 4. The conversion factor $\frac{1000 \text{ mL}}{1 \text{ L}}$ would be used to change
a. mass to density.
b. liters to milliliters.
c. units of volume to units of length.
d. units of length to units of volume.
- _____ 5. A measure of the quantity of matter is
a. density.
b. weight.
c. volume.
d. mass.

Section Quiz, *continued*

- _____ 6. All of the following are examples of units *except*
- a. weight.
 - b. kilometer.
 - c. gram.
 - d. teaspoon.
- _____ 7. Which of these abbreviations represents a volume unit?
- a. mL
 - b. mg
 - c. mm
 - d. cm
- _____ 8. The metric unit for length that is closest to the thickness of a dime is the
- a. micrometer.
 - b. millimeter.
 - c. centimeter.
 - d. decimeter.
- _____ 9. One cubic centimeter is equivalent to
- a. 1 milliliter.
 - b. 1 gram.
 - c. 1 liter.
 - d. 1 kilogram.
- _____ 10. The relationship between the mass m of a material, its volume V , and its density D is
- a. $V = mD$.
 - b. $Vm = D$.
 - c. $m = DV$.
 - d. $D + V = m$.