

1.3 Review Questions

1. Arrange the following metric prefixes in order of decreasing size. (You may need to look up some of the prefixes.) Also, tell what each means.

Kilo centi milli Giga micro
 nano Mega femto-

2. Why is it important for scientists to use a set standard for measurements?

3. Why do scientists consider the metric system to be better than the English system?

4. Give the Standard metric unit for the following:

- | | |
|-----------|-----------|
| a. length | c. time |
| b. mass | d. volume |

5. Tell whether the following is likely or unlikely. If unlikely, give an estimate to the correct size.

- a car is ten meters long
- the ceiling is one meter high
- your hand is fifty centimeters long
- a pencil is two centimeters long
- a bathtub is two meters deep
- an average person has a mass of 300 Kg.
- a day is 10,000 seconds long

6. Would you rather have a centidollar or a Kilodollar? Why?

7. How many cm^3 are equal to 1 milliliter?

8. Write out the full unit's name for each abbreviation

m =
g =
L =
s =

9. What are the abbreviations for these units?

milligram
centigram
Kilogram
millisecond

10. From what single measurement are most of the other metric measurements derived?