

Problem Set 1: Units and Measurements

- Which of the following is a unit for mass?
 - mL
 - cm
 - hg
 - s
- Which of the following is a unit for volume?
 - m
 - kg
 - dL
 - K
- Which of the following is an SI unit?
 - km
 - ms
 - kg
 - dL
 - g
- Write the symbol for the following units.
 - millisecond
 - centigram
 - deciliter
 - dekameter
 - microgram
- Convert the following temperatures into K.
 - 0 °C
 - 25 °C
 - 2 °C
- Convert the following temperatures into °C.
 - 301 K
 - 62 K
 - 0 K
- Fill in the blanks with the proper numerical value.
 - In 1 kg there are/is _____ g.
 - In 1 mm there are/is _____ m.
 - In 1 m there are/is _____ cm.
 - In 1000 m there are/is _____ km.
 - In 1 g there are/is _____ mg.
 - In 1 L there are/is _____ dL.
 - In 10 g there are/is _____ dag.
- The mass of a chunk of silicon is 3.11 g. If the volume is 1.40 mL, what is the density?