

# Assessment

/03



**The “SI” unit for mass is the:**

**a) pound**

**b) kg**

**c) cubic cm**

**d) inch**

The “SI” unit for length is the:

a) Kg

b) cm

c) m

d) km

**Convert 64 kg into ..... lbs.      [1 kg = 2.2 lbs]**

- a) 0.034**
- b) 29.1**
- c) 140.8**
- d) 128.5**
- e) 101.7**

**A measurement of 7.2 cm equals \_\_\_\_ meters.**

- a) 0.072**
- b) 0.0072**
- c) 720**
- d) 7200**
- e) Non of the above**

**Density is the ratio of:**

- a) Volume to mass**
- b) Length to mass**
- c) Mass to volume**
- d) Mass to area**

**Which of these units is the same in both the English and the metric system?**

- a) **Second**
- b) **°C**
- c) **Kilogram**
- d) **Meter**
- e) **Liter**

**What are the fundamental SI units of length, mass, time, and temperature, respectively?**

- a) km, kg, s, K
- b) m, g, s, °C
- c) m, g, s, K
- d) m, kg, s, °C
- e) m, kg, s, K



**Convert 42 °C to °F and express the answer to the correct number of significant figures.**

- a) 42 °F
- b) 107 °F
- c) 107.6 °F
- d) 108 °F
- e) 315 °F

**Convert  $97^{\circ}\text{C}$  to K and express the answer to the correct number of significant figures.**

- a) 369 K**
- b) 370 K**
- c) 397 K**
- d)  $-176\text{ K}$**
- e) No listed answer is correct.**

**What is the density (g/mL) of an object that has a mass of 14.01 grams and, when placed into a graduated cylinder, causes the water level to rise from 25.2 mL to 33.6 mL?**

- a) 0.60**
- b) 1.7**
- c) 1.8**
- d) 2.4**
- e) None of the above**