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TEST YOURSELF

1. Objective Questions

1. Write true or false for each statement:

- S.I. unit for temperature is fahrenheit. False
- Every measurement involves two things - a measurement and a unit. True.
- Mass is the measure of quantity of matter. True.
- The S.I. unit for ~~hour~~^{time} is hour. False.
- The area can be expressed as the product of lengths of two sides. True

2. Fill in the blanks:

- The S.I. unit of length is metre, of time is second, ^{of mass is $\frac{\text{Kilo.}}{\text{gram}}$}
- $^{\circ}\text{C}$ is the unit of temperature.
- 1 metric tonne = 1000 kg.
- The zero mark in Celsius thermometer is the melting point of ice. ✓

- e) The thermometer used to measure the human body temperature is called the thermometer.
- f) The ~~normal~~ temperature of human body is 37° Celsius or 98.6° F.
- g) The mass of an object is measured with the help of a beam balance.

Q. Define mass

Ans- The mass of a body is the quantity of matter contained in it. The S.I unit for mass is kilogram written as kg.

Q. Convert 80 gm to kg.

Ans- 1 kg = 1000 gm.

$$\frac{1000}{1000} \text{ gm} = \frac{1}{1000} \text{ kg}$$

$$80 \text{ gm} = 80 \times \frac{1}{1000} \text{ kg} = \frac{80}{1000} = \frac{2}{25} \text{ kg.}$$



Q. Explain the relationship between gram, kilogram and pound.

Ans- The relationship between gram, kilogram and pound is as follows-

$$1 \text{ kg} = 1000 \text{ g} = 10^3 \text{ g}$$

$$1 \text{ g} = \frac{1}{1000} \text{ kg} = 10^{-3} \text{ kg}$$

$$1 \text{ kg} = 1 \text{ gm} \Rightarrow 1 \text{ lb (pound)} = 453.59 \text{ g}$$

$$1 \text{ g} = \frac{1}{453.59} \text{ lb}$$

$$1 \text{ kg} = 1000 \div 453.59 \text{ or } 453.6 = 2.205 \text{ lbs.}$$

$$1 \text{ lb} = \frac{1}{2.205} \text{ kg}$$

✓
Sensib Kumar Mahanty
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