ICSE PHYSICS 7

Chapter 1: Measurement

Worksheet 1

1. Write T for true and F for false statement.

(i) The mass of an object contained per unit volume is called density.

(ii) The SI unit of area is square metre.

(iii) The volume of the immersed solid is less than the volume of water displaced by it.

(iv) A needle made of iron floats on water but it sinks in mercury.

(v) The SI unit of speed is metre/second.

2. Fill in the blanks.

(i) The density of a wooden piece is ⎯⎯⎯⎯⎯ than that of water.

(ii) The distance covered by an object in unit time is called ⎯⎯⎯⎯⎯.

(iii) The surface enclosed by an object or a plane figure is ⎯⎯⎯⎯⎯.

(iv) A device used to determine volume of liquids is ⎯⎯⎯⎯⎯.

(v) The SI unit of volume is ⎯⎯⎯⎯⎯.

3. Answer the following questions.

(i) What is the SI unit of density?

(ii) Define capacity.

(iii) Which balance is used to determine the mass of the given object?

(iv) Establish the relation between hectare and square metre.

(v) What is the area of a circle?

4. Solve the following numerical problems.

(i) A tank of 16 m and breadth 10 m is filled with water. If the depth of water in the tank is 1.2 m, find the volume of water contained in the tank.

(ii) If density of copper is 8.9 g/cm^3, find its value in kg/m^3.

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Worksheet 2

1. Fill in the blanks.

(i) Length, mass, time, etc., are _____ quantities.

(ii) The area of a square is _____.

(iii) The space occupied by an object is called its _____.

(iv) Equal volumes of two different substances have different _____.

(v) The density of gold is _____ than the density of mercury.

2. Match the columns.

Column A	Column B
(i) Volume of a cube	(a) 1000 kg/m^3
(ii) Volume of a cuboid	(b) 1000000 m^2
(iii) 1 g/cm^3 is equal to	(c) 1000 mm^3
(iv) 1 sq km is equal to	(d) $l \times b \times h$
(v) 1 cu cm is equal to	(e) a^3

3. Answer the following questions.

(i) Define physical quantities.

(ii) In which units, the volumes of liquids are measured?

(iii) Name one irregular solid which is heavier than water and one irregular solid which is lighter than water.

(iv) Can area of an irregular surface be estimated by using graph paper?

(v) What is the CGS unit of speed?

4. Solve the following numerical problems.

(i) Calculate the mass of a metal sphere of radius 5.0 cm if its density is 5 g/cm^3?

(ii) Find the volume of a piece of wood having mass 80 kg. The density of wood is 800 kg/m^3.