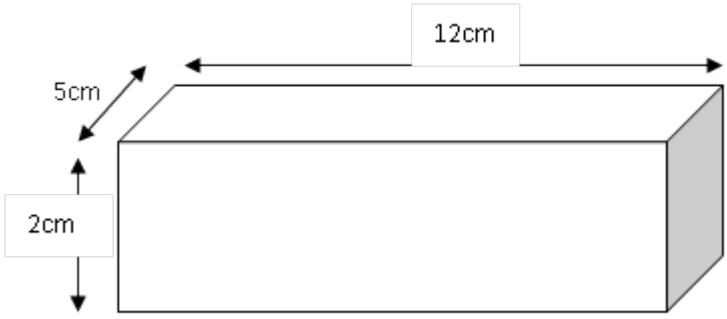
S.1 PHYSICS EXERCISE

1.	The set of apparatus that is suitable for measurement of the volume of an irregular object includes: A. overflow can, measuring cylinder, irregular object and string. B. measuring cylinder, overflow can, irregular object, flask. C. overflow can, irregular object , string, burette and retort stand. D. burette ,overflow can, measuring cylinder, irregular object ,string and retort stand.
2.	During the experiment to measure relative density of oil , a student got the following results Mass of the empty density bottle = 30g Mass of the density bottle filled with water = 40g Mass of the density bottle filled with oil = 38g Relative density of oil is A. 3.8 B. 8 C. 0.8 D. 40
3.	Convert $75cm^3$ to m^3 A. 7.5×10^{5} B 7.5×10^{2} C. 7.5×10^{-1} D. 7.5×10^{-5}
4.	Three of the fundamental physical quantities of measurements are? A. Density, time and mass B. Length, time and weight C. Length ,time and mass D. Volume ,temperature and mass.
5.	Write 0.000375 in scientific form A. 37.5×10^{-5} B. 3.75×10^{4} C. 3.75×10^{-4} D 37.5×10^{5}
7.	A 100 cm^{-3}measuring cylinder has mass of 60 g. When it is filled with dry sand up to the 50 cm^{-3} mark, its total mass is 140g .What is the density of sand? A. 0.8 gcm^{-3} B. 1.4 gcm^{-3} C. 1.6 gcm^{-3} D. 0.8gcm^{-3}
8.	A wooden block of mass 60g has dimensions shown in the figure.  What is the density of wood. A. 0.5gcm^{-3} B. 5gcm^{-3} C. 5$kgcm^{-3}$ D. 0.5$kgcm^{-3}$
9.	Which of the following has the highest density? A. Wood B. Rubber C. Water D. copper

10.	A spherical ball has a radius of 3cm. Find the volume in cubic meters A. $\frac{4\pi \times 27}{3 \times 10^6}$ B. $\frac{\pi \times 27}{4 \times 10}$ C. $\frac{4 \times 10^6}{27 \times \pi}$ D. $\frac{4\pi \times 10^6 \times 3}{27}$
11.	Two solid cubes have same mass but their lengths are in the ratio 4:1. What is the ratio of their densities? A. 1:4 B. 1:8 C. 1:16 D. 1:64
12.	A tin containing $6 \times 10^{-3} m^3$ of paint has a mass 8kg. If the mass of the empty tin with the lid is 0.5kg, calculate the density of the paint in kgm^{-3} A. $\frac{8 \times 0.5}{6 \times 10^{-3}}$ B. $\frac{7.5}{6 \times 10^{-3}}$ C $\frac{8 \times 10^6}{6 \times 10^{-3}}$ D $\frac{8.5 \times 10^6}{6 \times 10^{-3}}$
13.	Two hundred sheets of a book have a mass of 0.200 kg. The mass of each sheet of paper in the book is: A. $\frac{0.200}{200} kg$ B. $\frac{0.200}{100} kg$ C. $\frac{100}{0.2} kg$ D. $\frac{200}{0.2} kg$
14.	Describe on experiment of determining the volume of an irregular object. **(Use the right language please)**
15.	Write the following in scientific notation. i) 5.880 ii) 430000 iii) 60000 iv) 86000000 v) 5000000000000 vi) 0.00058 vii) 0.0000047
16.	Write the following quantities from scientific notation to normal form (i)The speed of light is 3.0×10^8 ms^{-1} (ii)The mass of the earth is 6.0×10^{24} kg The mass of the electron is 9.11×10^{-31}kg

End.