St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2024-2025 - Worksheet

| Class: VIII | Subject: Maths | Topic: Mensuration | Worksheet No:19 |

Q.1   1 cm³ =
     (a) 1000 mm³
     (b) 100 mm³
     (c) 10 mm³
     (d) 1/1000mm³

Q.2   The volume of a room is 80 m³. The area of the floor is 20 m². The height of the room is
     (a) 1 m
     (b) 2 m
     (c) 3 m
     (d) 4 m

Q.3   The floor of a room is a square of side 6 m. Its height is 4 m. The volume of the room is
     (a) 140 m³
     (b) 142 m³
     (c) 144 m³
     (d) 145 m³

Q.4   The heights of two right circular cylinders are the same. Their volumes are respectively 16π m³ and 81π m³. The ratio of their base radii is
     (a) 16 : 81
     (b) 4 : 9
     (c) 2 : 3
     (d) 9 : 4

Q.5   A glass in the form of a right circular cylinder is half full of water. Its base radius is 3 cm and height is 8 cm. The volume of water is
     (a) 18π cm³
     (b) 36π cm³
     (c) 9π cm³
     (d) 36 cm³

Q.6   If a cuboidal box has height, length and width as 20 cm, 15 cm and 10 cm respectively. Then its total surface area is:
     (a) 1100 cm²
     (b) 1200 cm²
     (c) 1300 cm²
     (d) 1400 cm²

Q.7   If the height of a cuboid becomes zero, it will take the shape of a
       (a) cube
       (b) parallelogram
       (c) circle
       (d) rectangle

Q.8   The volume of a cuboid of length l, breadth b and height h is
       (a) lbh
       (b) lb + bh + hl
       (c) 2 (lb + bh + hl)
       (d) 2 (l + b) h

Q.9   The ratio of the radii of two right circular cylinders is 1 : 2 and the ratio of their heights is 4 : 1.
       The ratio of their volumes is
       (a) 1 : 1
       (b) 1 : 2
       (c) 2 : 1
       (d) 4 : 1

Q.10   8 persons can stay in a cubical room. Each person requires 27 m³ of air. The side of the cube is
       (a) 6 m
       (b) 4 m
       (c) 3 m
       (d) 2 m