

INTERNATIONAL INDIAN SCHOOL
BURAIDAH

Worksheet For The Academic Year 2023-24

CLASS: VIII SUBJECT: Mathematics DATE: 12/11/2023
LESSON-11 Mensuration

- 1) Find the area of a trapezium whose parallel sides are 25cm and 15cm and the distance between these sides are 14cm.
- 2) Find the area of a quadrilateral of diagonal 12.8cm and the perpendiculars dropped from the opposite vertices to the diagonal are 6cm and 4.5cm.
- 3) Find the area of a rhombus of diagonals 12cm and 40cm.
- 4) The area of a rhombus is 120cm^2 . If one of its diagonals is 20cm, find the other diagonal.
- 5) The area of a quadrilateral is 342cm^2 . The perpendiculars from the opposite vertices to the diagonal are 12cm and 12cm. What is the length of the diagonal?
- 6) Find the surface area of a cubical water tank of side 1.5m.
- 7) The TSA of a cube is 96m^2 . Find the length of each side of the cube.
- 8) The TSA of a cuboidal box of length 8cm and breadth 6cm is 208cm^2 . Find the height of the box.
- 9) Find the cost of painting an open tank of dimensions 3m x 2m x 1.5m at rupees 20 per m^2 .
- 10) A rectangular swimming pool of dimensions 30m, 20m, 1.5m is to be tiled. If each tile is 50cm x 50cm, how many tiles are required?
- 11) Find the TSA of a cylinder whose base radius is 5cm and height is 10cm.
- 12) Find the volume of a cuboid of dimensions 45cm, 27cm and 18cm.
- 13) Find the volume of a cube of side 8cm.
- 14) Find the volume of a cylindrical can of height 21cm and base radius 8cm.
- 15) The area of the floor of a room is 67.5m^2 and its volume is 270m^3 . Find the height of the room.
- 16) Find the area covered by a roller of diameter 2.1m and length 4m in one revolution.
- 17) A rectangular piece of paper of length 44cm and breadth 20cm is rolled along its length to form a cylinder. Find the volume of the cylinder.
- 18) Estimate the cost of painting the inner wall of a well of depth 14ft and diameter 8ft at rupees 2.5 per sq.ft.
- 19) Find the CSA and TSA of a cylinder of diameter 28cm and height 10cm.
- 20) Find the difference of the TSA and LSA of a cube of side 10m.

ANSWERS

1) 280cm^2	2) 67.2cm^2	3) 240cm
4) 12cm	5) 28.5cm	6) 13.5m^2
7) 4m	8) 4cm	9) Rs 420
10) 840 tiles	11) 471cm^2	12) 21870cm^3
13) 512cm^3	14) 4224cm^3	15) 4m
16) 26.4m^2	17) 3080cm^3	18) Rs 880
19) 880cm^2 , 2112cm^2	20) 200m^2	