

INTERNATIONAL INDIAN SCHOOL

BURAI DAH

Worksheet For The Academic Year 2024-25

CLASS: VIII SUBJECT: Mathematics DATE: 15/12/2024

LESSON-11 Mensuration

- 1) Find the area of a rhombus with length of each side 14cm and altitude 16cm.
- 2) The area of 4 walls of a room is 168m^2 . The breadth and height of the room are 10m and 4m respectively. Find the length of the room.
- 3) A room is 9m long , 8m broad and 6m high. Find the cost of white-washing the 4 walls and ceiling at Rs 3 per m^2 .
- 4) Find the area of a parallelogram with base 5cm and altitude 4.2cm.
- 5) The base of a parallelogram is twice its height. If the area is 512cm^2 , find the base and height of the parallelogram.
- 6) Find the area of an equilateral triangle whose side is 10m long each.
- 7) A diagonal of a quadrilateral is 30m long and perpendiculars to it from the opposite vertices are 6.8m and 9.6m. Find the area of the quadrilateral.
- 8) The area of a rhombus is 72cm^2 . If one diagonal is 18cm long , find the length of the other diagonal.
- 9) Find the area of a trapezium whose parallel sides are 16cm and 22cm and Whose height is 12cm.
- 10) The area of a trapezium is 1586cm^2 and the distance between its parallel sides is 26cm. If one parallel side is 84cm , find the length of the other parallel side.
- 11) Find the surface area and LSA of a cuboid of dimensions 4cm, 3cm and 2cm.
- 12) Find the surface area of a cylinder whose base radius is 14cm and height is 28cm.
- 13) Find the LSA and TSA of a cube of edge 9m.

- 14) The circumference of the base of a cylinder is 15m and its height is 84m.
Find the volume of the cylinder.
- 15) Ratio of the surface areas of two cubes is 1:25. Find the ratio of their volumes.
- 16) A well is 3m in radius and 21m deep. Find the cost of digging the well at Rs 2 per m^2 .
- 17) The volume of a cylinder is $5346cm^3$ and its height is 21cm. Find its radius and CSA.
- 18) The TSA of a cube is $1350m^2$. Find its volume.
- 19) Find the edge of a cube whose volume is equal to that of a cuboid of dimension 36cm , 48cm and 27cm.
- 20) Find the volume of a cylinder of height 35cm whose CSA is $3375cm^2$.
- 21) Find the volume of a cylinder whose radius is 4cm and height is 6cm.
- 22) Find the LSA of a cuboid of dimension 15cm , 7cm and 4cm.

ANSWERS

1) $224cm^2$	6) $43.25m^2$	11) $52cm^2$	14) $1504.78m^3$	18) $3375m^3$
2) 11m	7) $246m^2$	$28cm^2$	15) 1:125	19) 36cm
3) Rs 828	8) 8cm	12) $3696cm^2$	16) Rs 1188	20) $25749.9cm^3$
4) $21cm^2$	9) $228cm^2$	13) $324m^2$	17) 9cm	21) $301.44cm^3$
5) 32cm,16cm	10) 38cm	$486m^2$	$1188cm^2$	22) $176cm^2$