

**BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL
VADODARA**

Date:	Worksheet-Mensuration-Area	Subject: Mathematics
Class: VIII	Name of the student:	

Solve the following:

- 1) Find the area of a rhombus whose diagonals are of lengths 6.8cm and 4.8cm.
- 2) The area of a trapezoidal field is 800 sq.m. The distance between the two parallel sides is 40m and one of the parallel sides is 30m long. Find the length of the other parallel side.
- 3) There are 20 cylindrical pillars in a building. The radius of each pillar is 21cm and the height is 10cm. find the total cost of painting the curved surface area of all the pillars at the rate of Rs 5 per sq.m.
- 4) Find the height of a cylinder whose radius is 21cm and total surface area is 3300 sq.cm.
- 5) A floor tile has the shape of a parallelogram whose base is 48cm and the corresponding height is 20cm. How many such tiles are required to cover a floor of area 960sq.m?
- 6) Kavita has a square plot of side 40m. She wants to construct a house of dimensions 30m×10m in the middle of the plot and develop a lawn in the remaining area. Find the total cost of developing the lawn around the house at the rate of Rs 60 per square m.
- 7) A box of dimensions 10cm× 8cm ×6cm is to be covered with paper. How many meters of a paper of width 10cm is required to cover 20 such boxes?
- 8) There are two cylinders A and B of diameters 14cm and 21cm whose heights are 21cm and 14 cm respectively. Whose volume is greater?
- 9) A rubber pipe is 18cm long and its external diameter is 6cm. If the thickness of the pipe is 1cm and the rubber weighs 4g/cubic cm, find the weight of the rubber pipe.
- 10) A road roller covers a stretch of road once in 50 complete revolutions. Find the area of the road, if the diameter of the road roller is 14m and its length 10m.