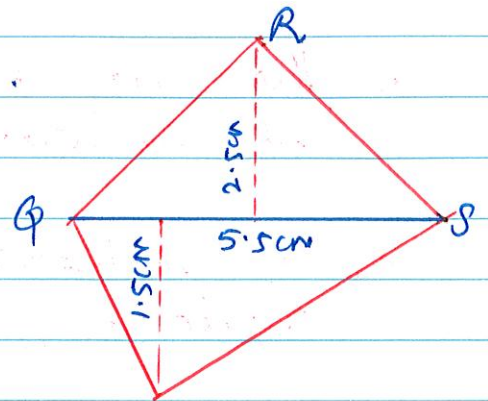


## Chapter 11 : Measurement

1) Find the area of quadrilateral PQRS.



2) Find the area of a rhombus whose diagonals are 10cm and 8.2cm.

3) The area of a trapezium shaped field is  $480 \text{ m}^2$ , the distance between two parallel sides is 15m and one of the parallel sides is 20m. Find the other parallel side.

4) The area of a rhombus is  $240 \text{ cm}^2$  and one of its diagonals is 16cm. Find the other diagonal.

5) An aquarium is in the form of a cuboid whose external measures are 80cm  $\times$  30cm  $\times$  40cm. The base, side faces and back face are to be covered with a coloured paper. Find the area of the paper needed?

6) The internal measures of a cuboidal room are 12m  $\times$  8m  $\times$  4m. Find the total cost of white washing all four walls of a room, if the cost of white washing is Rs. 5 per  $\text{m}^2$ . What will be the cost of white washing if the ceiling of the room is also white washed.

6) In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m. Find the total cost of painting the curved surface area of all pillars at the rate of ₹. 8 per  $m^2$ .

7) Find the height of a cylinder whose radius is 7 cm and the total surface area is  $968 \text{ cm}^2$ .

8) Find the height of a cuboid whose volume is  $275 \text{ cm}^3$  and the base area is  $25 \text{ cm}^2$ .

9) A godown is in form of a cuboid measures  $60 \text{ m} \times 40 \text{ m} \times 30 \text{ m}$ . How many cuboidal boxes can be stored in it if the volume of one box is  $0.8 \text{ m}^3$ ?

10) A rectangular paper of width 14 cm is rolled along its width and cylinder of radius 20 cm is formed. Find the volume of the cylinder.

11) A rectangular piece of paper  $11 \text{ cm} \times 4 \text{ cm}$  is folded without overlapping to make a cylinder of height 4 cm. Find the volume of the cylinder.

12) Volume of a water tank is  $26 \text{ m}^3$ . Find the capacity in litres.

13) The area of a trapezium shaped field is  $480 \text{ m}^2$ . The distance between two parallel sides is 15 m and one of the parallel sides is 20 m. Find the other parallel side.

- 14) Find the height of the cylinder whose volume is  $1.54 \text{ m}^3$  and diameter of the base is  $140 \text{ cm}$ .
- 15) A rhombus has its diagonals  $7 \text{ cm}$  &  $6 \text{ cm}$ . What is its area?
- 16) The area of a trapezium shaped field is  $750 \text{ cm}^2$ . The distance between parallel sides is  $20 \text{ cm}$  & one of the parallel sides is  $40 \text{ cm}$ . Find the length of other side.
- 17) The perimeter of the floor of a hall is  $250 \text{ m}$ . If the height is  $400 \text{ cm}$ , find the cost of painting the four walls at the rate of  $\text{Rs. } 12$  per square meter.
- 18) A tin is a cylindrical shaped whose base has a diameter of  $14 \text{ cm}$  and height  $20 \text{ cm}$ . A label is placed around the surface of the container. If the label is placed  $2 \text{ cm}$  from top and bottom, what is the area of the label?
- 19) The area of a trapezium is  $34 \text{ cm}^2$  & the length of one of the parallel sides is  $10 \text{ cm}$  & its height is  $4 \text{ cm}$ . Find the length of the other parallel side.
- 20) A road roller takes  $750$  complete revolutions to move once over to level a road. Find the area of the road if the diameter of a road roller is  $84 \text{ cm}$  and the length is  $1 \text{ m}$ .
- 21) The curved surface area of a  $14 \text{ m}$  high cylinder is  $352 \text{ m}^2$ . Find the volume of the cylinder.