1. Find the length of the side of a cube whose total surface area measures $600\,cm^2$.

2. Raju painted the outside of a cabinet on all sides except the bottom. If the cabinet measures $2m \times 1m \times 1.5m$, how much surface did he paint?

3. Find the height of a cuboid of volume $100\,cm^3$, whose length and breadth are $5cm$ and $4cm$ respectively.

4. Find the curved surface area of a cylinder, the diameter of whose base is $7cm$ and height is $60cm$.

5. Find the lateral surface area of a cube of side 15 metre?

6. Case study

   A metal pipe is $77cm$ long, the inner diameter of the cross–section is $4cm$ and the outer diameter is $4.8cm$.

(a) What is the inner curved surface area?

a. 986 sq cm b. 968 sq cm c. 900 sq cm d. 886 sq cm

(b) What is the outer curved surface area?

a. 1212sqcm b. 1158.6sqcm c. 1161.6sqcm d. 1166.6sqcm

(c) What is the total surface area?

a. 2140.66sqcm b. 2150.66sqcm c. 2200 sqcm d. 2000sqcm

7. What is the volume of a cuboid having area of the top equal to 38 sq cm and height equal to $12m$?

8. What is the altitude of the rhombus whose area is $30\,cm^2$ and its perimeter is 24 cm.

9. Find the surface area of a cube whose volume is 512 cm^3.

10. In what ratio will the surface area increased? If the sides of a cube are doubled.

11. Calculate the area of the quadrilateral which has diagonal $10m$ and perpendiculars on it from opposite vertices are $6m$ and $5m$?

12. The perimeter of a rhombus is $146cm$ and length of one of its diagonals is $55cm$. Find the length of its other diagonal and area of the rhombus.

13. A sheet is $44\,cm$ long, $20\,cm$ wide. A cylinder is made out of it, by rolling along its width. Find the volume of the cylinder?

14. Find the area of a isosceles trapezium whose parallel sides are $10\,cm$ and $18\,cm$. Its nonparallel sides are $5\,cm$ each.

15. Cube of edge $14\,cm$ is melted to form a cylindrical wire of diameter $7\,mm$. Find the length of the wire?

16. If the area of an equilateral triangle is $36\sqrt{3}\,m^2$. Find the length of its side?

17. Find the diameter of an iron rod if the volume of $1m$ is $1{,}386\,cm^3$.