1. a) Area of a trapezium =---------
   b) Area of a Rhombus =------
   c) $1cm^3$ =--------mL
   d) 1L =--------cm^3
   e) $1m^3$ =-------L

2. Find the area of a triangle with base 10 cm and height 6 cm.

3. Find the volume of a cuboid whose length is 8cm, breadth 6cm, and height 3.5cm

4. Find the altitude of a trapezium, the sum of the lengths of whose bases is 6.5cm and whose area is $26cm^2$

5. Find the volume of a cube of side 5 cm.

6. The area of a rhombus is 720 cm^2 and one of the diagonals is 24cm. Find the other diagonal

7. Find the curved surface area of a cylinder of radius 7 cm and height 10 cm.

8. Find the area of a trapezium whose parallel sides are 12 cm and 18 cm and the distance between them is 7 cm.

9. Find the total surface area of a cuboid of dimensions 10 cm × 8 cm × 6 cm.

10. Find the volume of a cylinder of radius 3.5 cm and height 10 cm.

11. Find the area of a rhombus whose diagonals are 12 cm and 16 cm.

12. How many cubic centimetres of water can a tank of dimensions 20 cm × 15 cm × 10 cm hold?

13. Find the side of a cube whose surface area is 1734 cm^2

14. In a building there are 16 pillars. The radius of each pillar is 14cm and height is 4m. Find the total cost of painting the curved surface area of all pillars at the rate of ₹9 per m^2

15. Find the height of a cuboid whose base area is 360 cm^2 and volume is 2520 cm^3

16. A rectangular piece of paper 22cm × 8cm is folded without overlapping to make a cylinder of height 8cm. Find the volume of the cylinder

17. A godown is in the form of a cuboid of measure 80m× 60m ×40m. How many cuboidal boxes can be stored in it if the volume of one box is 0.12m^3

18. The circumference of the base of a cylinder is 88cm and its height is 15cm. Find its curved surface area and total surface area

19. The diameter of a roller is 84 cm, and its length is 120 cm. It takes 500 complete revolutions moving once over to level a playground. What is the area of the playground?

20. Find the area of the polygon if AD = 10cm, AG = 8cm, AF = 5cm, BF = 5cm, CG = 7cm and EH = 3cm.
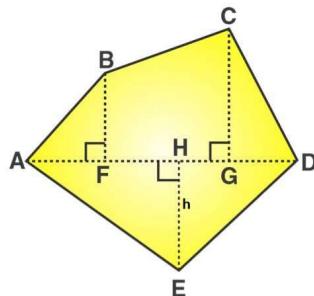
21. Find the area of the following figures as the sum of the areas of a rectangle and trapezium.
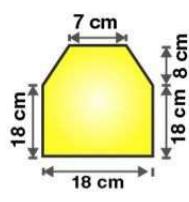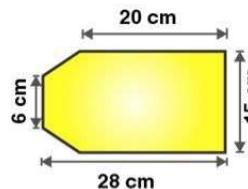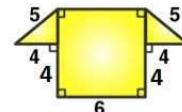
| (i) | (ii) | (iii) |

Answers:

1. a) $\frac{1}{2}$ h(a+ b)   b) $\frac{1}{2}d_1 \times d_2$ c) 1

    d) 1000   e) 1000

2. 30cm^2 3. 168cm^3 4. 8cm

5. 125cm^3 6. 60cm   7. 440cm^2

8. 105cm^2 9. 376cm^2 10. 385 cm^3

11. 96cm^2 12. 3000cm^3 13. 17cm

14. ₹506.88   15. 7cm   16. 308cm^3

17. 16,00,000boxes   18. 1320cm^2,2552cm^2 19. 1584m^2

20. 52.5cm^2 21. i) 424cm^2 ii) 384cm^2 iii) 54cm^2

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