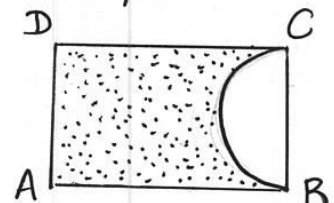


- The length and breadth of a rectangular field are in the ratio 3:2. If the area of the field is 3456 m^2 , find the cost of fencing the field at ₹ 3.50 / metre. (₹ 840)
- What is the area of square with perimeter 68 cm? (289 cm^2)
- The dimensions of a room are $16 \text{ m} \times 14 \text{ m} \times 10 \text{ m}$. There are four windows of size $1.3 \text{ m} \times 1.4 \text{ m}$ each and two doors of size $2 \text{ m} \times 1 \text{ m}$ each. What will be the cost of white-washing the walls @ ₹ 5 / m^2 and the cost of polishing the doors and windows @ ₹ 8 / m^2 ? (₹ 2943.60, ₹ 90.24)
- A verandah 1 m wide is constructed all along the inside of a room 6 m long and 5 m wide. Find:
 - the area of the verandah (18 m^2)
 - the cost of cementing the floor of the verandah at the rate of ₹ 50 per m^2 . (₹ 900)

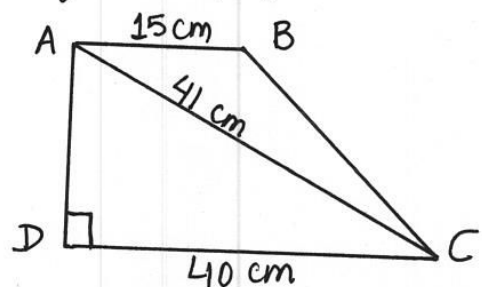
- A paper is in the form of a rectangle ABCD with $AB = 20 \text{ cm}$ and $BC = 14 \text{ cm}$. A semi-circular portion with BC as diameter is cut-off.

Find the area and perimeter of the remaining part. (203 cm^2 , 76 cm)

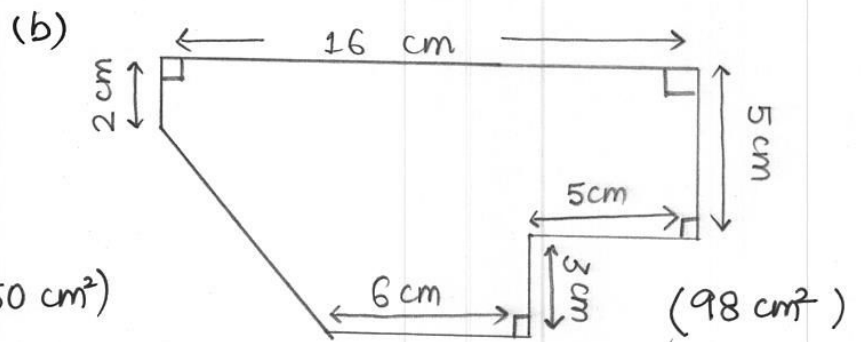
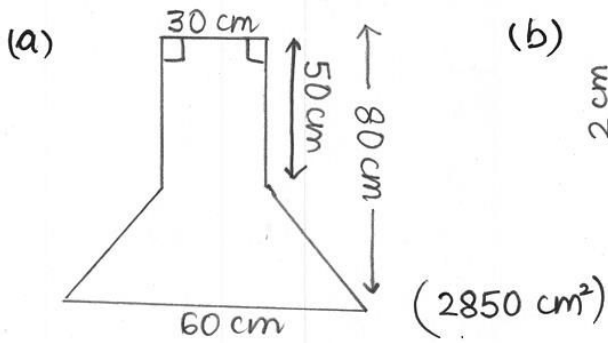


- The area of a trapezium is 168 cm^2 and its height is 8 cm. If one of the parallel sides is longer than the other by 6 cm, find the length of each of the parallel sides. (18 cm , 24 cm)

- AB and DC are the parallel sides of a trapezium ABCD and $\angle ADC = 90^\circ$. If $AB = 15 \text{ cm}$, $DC = 40 \text{ cm}$ and the diagonal $AC = 41 \text{ cm}$, calculate the area of the Trapezium. (247.5 cm^2)



8. Find the area of the following polygons:



9. An aquarium is in the form of a cuboid whose external dimensions are 80 cm X 40 cm X 50 cm. The base, side faces and back are to be covered with a coloured paper. Find the area of the paper needed. (11200 cm²)
10. Three cubes of edge 3 cm each, are placed side to side together. Find the surface area and volume of the solid so formed. (126 cm², 81 cm³)
11. How many bricks each of . . . which is 25 cm long, 10 cm wide and 8 cm thick are required to build a wall 5 m long, 8 cm high and 16 cm thick? (3200)
12. The dimensions of a cuboid are in the ratio 7:3:2, and its total surface area is 2050 m². Find its dimensions. (35 m, 15 m, 10 m)
13. The length of a road roller is 2 m and its base diameter is 50 cm. It takes 700 revolutions to level a ground. Find the area of the ground. (2200 m²)
14. Find the volume of a cube whose total surface area is 486 cm². (729 cm³)
15. How many persons can be accommodated in a hall of length 16 m, breadth 12.5 m and height 4.5 m, assuming that 3.6 m³ of air is required for each person? (250)

16. The size of a matchbox is $4\text{ cm} \times 2.5\text{ cm} \times 1.5\text{ cm}$. What is the volume of a packet containing 144 matchboxes? How many such packets can be placed in a carton of size $1.5\text{ m} \times 84\text{ cm} \times 60\text{ cm}$? (2160 cm^3 , 350)
17. A rectangular sheet of paper of length 40 cm and breadth 22 cm is rolled along the breadth and the ends are joined together to form a cylinder. Find the total surface area of the cylinder. (957 cm^2)
18. The radius of a 80 m long road roller is 77 cm . Calculate the number of revolutions that it will take to cover an area of 96.8 m^2 (25)
19. The radius and height of a cylinder are in the ratio $7:2$. If the volume of the cylinder is 8316 cm^3 , find its total surface area. (3564 cm^2)
20. If the lateral surface area of a cylinder of height 5 cm is 94.2 cm^2 , find
 (a) the radius of its base. (3 cm)
 (b) the volume of the cylinder. (Use $\pi = 3.14$) (141.3 cm^3)

