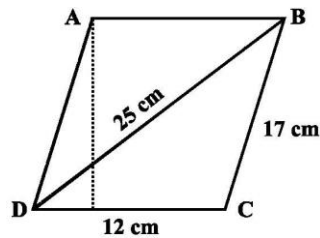




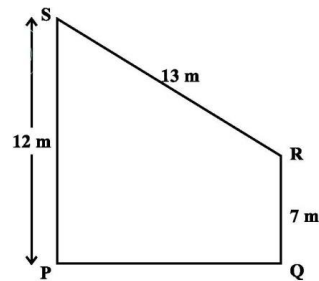
Assignment

Chapter-12(Heron's Formula)

1. A triangle has sides 35 cm, 54 cm and 61 cm long. Find its area. Also find smallest of its altitudes.
2. From a point in the interior of an equilateral triangle, perpendiculars are drawn on the three sides. The lengths of the perpendiculars are 14 cm, 10 cm and 6 cm. Find the area of the triangle.
3. The perimeter of an isosceles triangle is 32 cm. The ratio of the equal side to its base is 3 :2. Find the area of the triangle.
4. A field in the form of a parallelogram has sides 60 m and 40 m and one of its diagonals is 80 m long. Find the area of the parallelogram.
5. Find the area of a parallelogram given in the below Figure. Also find the length of the altitude from vertex A on the side DC.



6. Find the area of the trapezium PQRS with height PQ given in the below Figure



7. If each side of a triangle is doubled, then find the ratio of area of the new triangle thus formed and the given triangle.
8. The perimeter of a triangle is 50 cm. One side of a triangle is 4 cm longer than the smaller side and the third side is 6 cm less than twice the smaller side. Find the area of the triangle.
9. The sides of a triangle are 35 cm, 54 cm and 61 cm, respectively. Find the length of its longest altitude.
10. If the height of an equilateral triangle is 6 cm, then find the area of the triangle.
11. If area of an equilateral is $36\sqrt{3}$ sq.cm , find the perimeter of triangle.