Heron's Formula 9th

1. The base of a triangular field is three times its altitude. If the cost of sowing the field at Rs 58 per hectare is Rs 3,783 find its base and height.
2. Perimeter of an isosceles triangle is 42cm and its base is $\frac{3}{2}$ times each of the equal sides. Find:
   (1) Length of each side of triangle
   (2) Area of triangle
   (3) The height of triangle?
3. If the area of an equilateral triangle is $36\sqrt{3}$cm^2 find its side length.
4. Find the area of quadrilateral ABCD in which AD=24cm, <BAD=90° and ΔBCD is equilateral having each side equal to 26cm. Also find the perimeter of the quadrilateral.
5. A floral design on a floor is made up of 16 tiles, each triangular in shape having sides 16cm,12cm and 20cm.find the cost of polishing the tiles at Rs 1/cm^2?
6. The difference between the sides at right angles in a right-angled triangle is 14cm.the area of the triangle is 120cm^2. Calculate the perimeter of the triangle?
7. Find the area of a trapezium whose parallel side 25cm, 13cm and other sides are 15cm and 15cm.
8. The sides of a quadrilateral, taken in order are 26cm, 27cm, 7cm and 24cm respectively and the angle contained by the last two sides is right angle. find its area.
9. The base of an isosceles triangle is 6cm and each of its equal sides is 5cm, find the height of triangle?
10. The difference between the semi perimeter and the sides of a ΔABC are 8cm,7cm and 5cm respectively. Find the area of triangle?