

- Q.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 783, find its base and height.
- Q.2 - Find the area of the triangle whose sides are 42 cm, 34 cm and 20 cm in length. Hence, find the height corresponding to the longest side.
- Q.3 - The sides of a triangle are in the ratio 5:12:13 and its perimeter is 150 m. Find the area of the triangle.
- Q.4 - The base of an isosceles triangle each of whose equal sides measures 13 cm is x and its area is 83.06 cm^2 . Find the value of x .
- Q.5 - If the area of an equilateral triangle is $81\sqrt{3} \text{ cm}^2$, find its height.
- Q.6 - The sides of a quadrilateral ABCD taken in order are 6 cm, 8 cm, 12 cm and 14 cm respectively and the angle between the first two sides is a right angle. Find its area.
(Given $\sqrt{6} = 2.45$)
- Q.7 - 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.

CR-12 Heron's Formula Assignment Part-2

Q.8- The difference between the sides at right angles in a right-angled triangle is 14 cm. The area of the triangle is 120 cm^2 . Calculate the perimeter of the triangle.

Q.9- In a four-sided field, the length of the longer diagonal is 128 m. The lengths of the perpendiculars from the opposite vertices upon this diagonal are 22.7 m and 17.3 m. Find the area of the field.

Q.10- Find the area of the parallelogram ABCD in which $BC = 12 \text{ cm}$, $CD = 17 \text{ cm}$ and $BD = 25 \text{ cm}$. Also, find the length of the altitude AE from vertex A on the side BC.