

Class- IX MATHS Chapter-12 Heron's Formula
Assignment Part-3

- Q.1- Find the area of the quadrilateral ABCD in which BCD is an equilateral triangle, each of whose sides is 26 cm, AD = 24 cm and $\angle BAD = 90^\circ$. Also, find the perimeter of the quadrilateral. (Given $\sqrt{3} = 1.73$)
- Q.2. The area of a trapezium is 475 cm^2 and its height is 19 cm. Find the lengths of its two parallel sides if one side is 4 cm greater than the other.
- Q.3. A rhombus-shaped sheet with perimeter 40 cm and one diagonal 12 cm, is painted on both sides at the rate of Rs 5 per cm^2 . Find the cost of painting.
- Q.4. The difference between the semiperimeter and the sides of a $\triangle ABC$ are 8 cm, 7 cm and 5 cm respectively. Find the area of the triangle.
- Q.5. The shape of the cross section of a canal is a trapezium. If the canal is 10 m wide at the top, 6 m wide at the bottom and the area of its cross section is 640 m^2 , find the depth of the canal.
- Q.6- The difference between the lengths of the parallel sides of a trapezium is 8 cm, the perpendicular distance between these sides is 24 cm and the area of the trapezium is 312 cm^2 . Find the length of each of the parallel sides.

Ch-12. Heron's Formula Assignment Part-4

- Q.7- A parallelogram and a square have the same area. If the sides of the square measure 40m and altitude of the parallelogram measures 25m, find the length of the corresponding base of the parallelogram.
- Q.8- The area of a rhombus is 480 cm^2 , and one of its diagonals measures 48cm. Find (i) the length of the other diagonal (ii) the length of each of its sides, and (iii) its perimeter.
- Q.9. If each side of a triangle is doubled then find the ratio of the area of the new triangle thus formed and the given triangle.
- Q.10- The length and breadth of a rectangular park are in the ratio 8:5. A path, 1.5m wide, running all around the ~~out~~ outside of the park has an area of 594 m^2 . Find the dimensions of the park.