



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH:12 Heron's Formula

Name: _____

Date: _____

Class: IX Sec: ____

1. Find the area of a quadrilateral ABCD in which $AB = 3\text{cm}$, $BC = 4\text{cm}$, $CD = 6\text{cm}$, $DA = 5\text{cm}$ and diagonal $AC = 5\text{cm}$.
2. Find the area of a triangle, two sides of which are 18cm , and 10cm and the perimeter is 42cm .
3. Find the area of an equilateral triangle one of whose sides measure " a " cm, using Heron's formula.
4. Find the area of rhombus whose perimeter is 80m and one of whose diagonal is 24m .
5. If the sides of a triangle are in the ratio $3 : 4 : 5$ and its perimeter is 144cm . Find the area of triangle and height to the longest side.
6. A field is in the shape of a trapezium with parallel sides of length 25m and 10m and non-parallel sides 14m and 13m long. Find the area of the field.
7. The sides of a triangular field are 51m , 37m and 20m . find the number of rose beds that can be prepared in the field, if each rose bed, on an average occupies 6sq.m of space.
8. Sanya has a piece of land which is in the shape of a rhombus. She wants her one daughter and one son to work on the land and produce different crops. She divides the land in two equal parts. If the perimeter of the land is 400m and one of the diagonals is 160m , how much area each of them will get for their crops?



INDIAN SCHOOL NIZWA - WORKSHEET

9. $\triangle ABC$ is an equilateral triangle with side 10cm, and $\triangle DBC$ is right angled at D. If $BD=6$ cm,

find the area of the shaded region.(use $\sqrt{3} = 1.732$).

