

**INTERNATIONAL INDIAN SCHOOL**

**BURAIDAH**

Worksheet For The Academic Year 2023-24

**CLASS: IX    SUBJECT: Mathematics    DATE: 11/11/2023**

**LESSON-12   Heron's Formula**

- 1) Find the area of a triangle whose sides are 9cm , 12cm and 15cm.
- 2) In  $\triangle ABC$  ,  $AB = 15\text{cm}$  ,  $BC = 13\text{cm}$  and  $AC = 14\text{cm}$ . Find the area of the triangle . Also find its height to AC.
- 3) The perimeter of a triangle is 300m. If the ratio of its sides are 3: 5 : 7, find the area of the triangle.
- 4) The sides of a triangle are 35cm , 54cm and 61cm. Find its area.
- 5) Find the area of an equilateral triangle of side 10cm.
- 6) Find the area of an isosceles triangle with two equal sides as 5cm and third side as 8cm.
- 7) Find the area of a right triangle whose base is 12cm and height is 5cm.
- 8) Find the area of a triangular park whose sides are 40m, 32m and 24m.
- 9) Find the area of an equilateral triangle of side 2cm.
- 10) If the area of an equilateral triangle is  $\frac{\sqrt{3}}{4} \text{ cm}^2$  , find the side of the triangle.
- 11) Find the area of a triangle whose base is 5cm and altitude is 4cm.
- 12) The base of a right triangle is 8cm and its hypotenuse is 10cm.  
Find its area.

ANSWERS

1) $54\text{cm}^2$	2) $84\text{cm}^2$ , $12\text{cm}$	3) $1500\sqrt{3}\text{ m}^2$
4) $420\sqrt{5}\text{ cm}^2$	5) $25\sqrt{3}\text{ cm}^2$	6) $12\text{cm}^2$
7) $30\text{cm}^2$	8) $384\text{ m}^2$	9) $\sqrt{3}\text{ cm}^2$
10) $1\text{cm}$	11) $10\text{ cm}^2$	12) $24\text{ cm}^2$