INTERNATIONAL INDIAN SCHOOL

BURAIDAH

Worksheet For The Academic Year 2024-25

CLASS: IX SUBJECT: Mathematics DATE: 29/11/2024

LESSON-12 Heron's Formula

1) Heron's formula is used to find area of _____.

2) Find the area of a triangle whose sides are 12cm , 16cm and 20cm.

3) Find the area of a triangle two sides of which are 16cm and 22cm and perimeter is 64cm.

4) Find the area of an isosceles triangle using Heron's formula having base 4cm and length of one of the equal side as 6cm.

5) The length of the sides of a triangle are in the ratio 3: 4: 5 and its perimeter is 144cm. Find the area of the triangle.

6) If the perimeter of an isosceles triangle is 11cm and its unequal side is 5cm. Find the length of its equal sides.

7) The sides of a triangular ground are 5m , 7m and 8m respectively. Find the cost of levelling the ground at the rate of Rs 10 per m^2.

8) In an isosceles triangle , the ratio of one equal side to its base is 3:1. If the perimeter of the triangle is 28cm , find its area.

9) The perimeter of a triangular field is 450m and its sides are in the ratio 13: 12: 5 . Find the area of the triangle.

10) The triangular sides of a flyover has been used for advertisements. The sides of the walls are 13m , 14m and 15m. The advertisement yields an earning of Rs 2000 per m^2 per year. A company hired one of its walls for 6 months. How much rent did it pay?

ANSWERS

2) $96cm^2$ 3) $32\sqrt{30}\ cm^2$ 4) $8\sqrt{2}\ cm^2$ 5) $864cm^2$ 6) 3cm 7) Rs 173

8) $4\sqrt{35}\ cm^2$ 9) $6750m^2$ 10) Rs 168000