INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

Ch- 12 Heron's Formula

Name: _____ Date:_____ Class: IX Sec: ___

1.	An isosceles right triangle has area 8 cm². The length of its hypotenuse is (a) $\sqrt{32}$ cm (b) $\sqrt{16}$ cm (c) $\sqrt{48}$ cm (d) $\sqrt{24}$ cm
2.	The perimeter of an equilateral triangle is 60 m. The area is (a) $10\sqrt{3}$ m² (b) $15\sqrt{3}$ m² (c) $20\sqrt{3}$ m² (d) $100\sqrt{3}$ m²
3.	The sides of a triangle are 56 cm, 60 cm and 52 cm long. Then the area of the triangle is (a) 1322 cm² (b) 1311 cm² (c) 1344 cm² (d) 1392 cm²
4.	The area of an equilateral triangle with side $2\sqrt{3}$ cm is (a) 5.196 cm² (b) 0.866 cm² (c) 3.496 cm² (d) 1.732 cm²
5.	The length of each side of an equilateral triangle having an area of $9\sqrt{3}$ cm² is (a) 8 cm (b) 36 cm (c) 4 cm (d) 6 cm
6.	The base of a right triangle is 48 cm and its hypotenuse is 50 cm. The area of the triangle is (a) 168 cm² (b) 252 cm² (c) 336 cm² (d) 504 cm²

7.	The sides of a triangle are 35 cm, 54 cm and 61 cm. The length of its longest altitude is (a) $16\sqrt{5}$ cm (b) $10\sqrt{5}$ cm (c) $24\sqrt{5}$ cm (d) 28 cm
8.	The edges of a triangular board are 6 cm, 8 cm and 10 cm. The cost of painting it at the rate of 9 paise per cm^2 is (a) Rs 2.00 (b) Rs 2.16 (c) Rs 2.48 (d) Rs 3.00
9.	The area of a triangle is 150 cm^2 and its sides are in the ratio 3 : 4 : 5. What is its perimeter? a. 10 cm b. 30 cm c. 45 cm d. 60 cm
10.	The sides of a triangle are in the ratio of 3 : 4 : 5. If its perimeter is 36 cm, then what is its area? a. 32 cm^2 b. 54 cm^2 c. 67 cm^2 d. 72cm^2
11.	Find the area of a triangle, two sides of which are 18cm, and 10cm and the perimeter is 42cm.
12.	Find the area of rhombus whose perimeter is 80m and one of whose diagonal is 24m.
13.	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.
14.	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.
16.	ΔABC is an equilateral triangle with side 10cm, and ΔDBC is right angled at D. If BD=6cm, find the area of the shaded region.(use $\sqrt{3} = 1.732$). 