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INTERNATIONAL INDIAN SCHOOL, RIYADH

WORK SHEET – FIRST TERM

CLASS – IX

HERON's FORMULA

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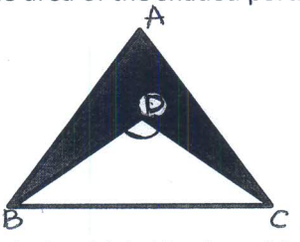
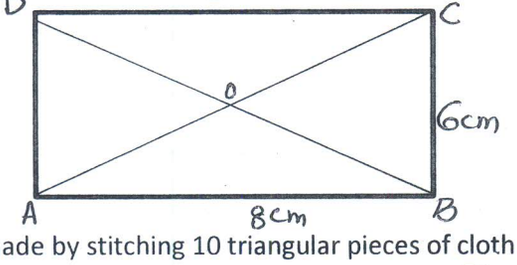
1. In the given fig. triangle ABC is an equilateral triangle with side 10cm and triangle ABC is right angle at D. If BD = 8cm. Find the area of the shaded portion (Use √3 = 1.73)



2. In the given fig. ABCD is rectangle in which AB= 8cm, BC = 6cm and the diagonals intersect each other at 0. Find the area of the shaded region by using Heron's formula



3. A garden Umbrella is made by stitching 10 triangular pieces of cloth of two different colors, each piece measuring 60cm, 1m and 1m. Find the area of cloth (in m^2) required of each color.
4. The semi – perimeter of a triangular ground in 450 units and its sides are in the ratio 3:5:4 using Heron's formula, find the area of ground.
5. Perimeter of an Isosceles triangle is 150m. If its unequal side is 70m, find the area of the triangle (Use √15 = 3.87)
6. Using Heron's formula find the area of an Isosceles right angled triangle whose one side is 7m greater than its equal side and perimeter is 70m.
7. If area of right angled triangle is 216 cm^2 and base is 24m. find the perimeter of the triangle.
8. Find the area of a trapezium whose parallel sides 25cm, 13cm and other sides are 15cm and 15cm.
9. Find the area of a quadrilateral ABCD whose sides are 9m, 40m, 28m and 15m respectively and the angle between the first two sides is a right angle.
10. Find the area of a triangle two sides of which are 18cm and 10cm and the perimeter is 42cm