**Assignment**

**Class 9**

**Ch. – 12(Heron’s Formula)**

1. **The lengths of the sides of a triangle are 5cm, 12cm and 13cm. Find the length of perpendicular from the opposite vertex to the side whose length is 13cm.**
2. **The lengths of the sides are in the ratio 3:4:5 and its perimeter is 144cm.Find the area of the triangle and the height corresponding to the longest side.**
3. **Find the area of the shaded region in the given figure:**
4. **A hand fan is made by stitching 10 equal size triangular strips of two different types of a paper as shown in fig. The dimensions of equal strips are 25cm, 25cm and 14cm.Find the area of each type of paper needed to make the hand form.**
5. **The area of a trapezium is 475cm2.Find the lengths of its two parallel sides if one side of 4cm greater than the other.**
6. **The sides of a three sides of triangle are 56cm, 60cm and 52cm long. Then the area of the triangle is:**
7. **1322 cm2**
8. **1311 cm2**
9. **1344 cm2**
10. **1392 cm2**
11. **The perimeter of equilateral triangle is 60 m, then its area is:**
12. **10**$√3$ **m2**
13. **15**$√3$ **m2**
14. **20**$√3$ **m2**
15. **100**$√3$ **m2**
16. **The area of an isosceles triangle having base 2 cm and length of its equal sides 4cm is:**
17. $√15$ **cm2**
18. $\sqrt{15}/2$ **cm2**
19. $2√15$ **cm2**
20. $4√15$ **cm2**