

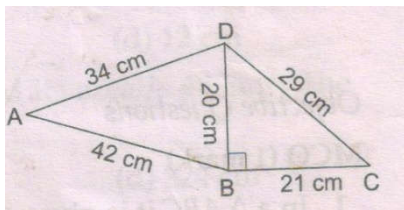
## Worksheet For The Session 2017-18

### CLASS-IX

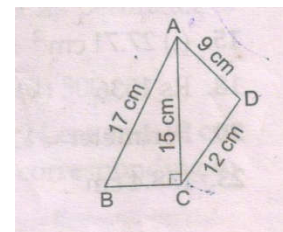
**Topic Covered : Heron's Formula**

**Date Of Submission :-20/4/17**

- 1) Find the area of equilateral triangle whose perimeter is 24 cm .
- 2) The sides of a triangular field are 24 cm , 7 cm and 25 cm . Find the number of triangular beds that can be made of sides 3 cm , 4 cm , 5 cm
- 3) The sides of a triangle are 20 cm , 34 cm and 42 cm . Find the area of triangle and also the length of the longest altitude .
- 4) The cost of turfing a triangular field at the rate of Rs. 5 per sq. m is Rs. 6720 . If sides of the field are on ratio 4:7 :9 , find the sides of the field.(take  $\sqrt{5} = 2.24$  )
- 5) One side of a right triangular plot measures 126 m and the difference in lengths of its hypotenuse and other side is 42 m . Find the measures of its unknown sides and its area .
- 6) The perimeter of a rhombus is 20 cm and one of its diagonal is 6 cm . Find the length of the other diagonal.
- 7) Find the area of trapezium whose parallel sides are 60 cm and 77 cm and non parallel sides are 25 cm and 26 cm.
- 8) The adjacent sides of a parallelogram ABCD measure 51 cm and 37 cm and the diagonal AC measure 20 cm . Find the area of parallelogram.
- 9) The length of the sides of a triangle are 24 cm , 26 cm and 10 cm . Find
  - a) The area of triangle
  - b) The length of the altitude corresponding to longest side
- 10) Find the percentage decrease in the area of a triangle if each of its side is halved.
- 11) Find the perimeter and area of the quadrilateral ABCD in which AB= 42cm, BC= 21cm, CD=29cm, DA=34cm and angle CBD=90°.



- 12) find the perimeter and area of the quadrilateral ABCD in which AB= 17cm, AD= 9cm,



CD=12cm, AC=15cm and angle ACB=90°