

# Worksheet 2

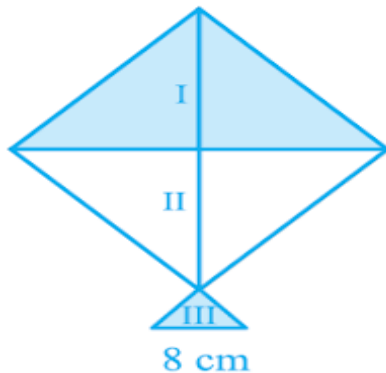
## Chapter 12 Heron's Formula

Class IX

Sub. Mathematics

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1. A park, in the shape of a quadrilateral ABCD has  $\angle C = 90^\circ$ ,  $AB = 9\text{m}$ ,  $BC = 10\text{m}$ ,  $CD = 5\text{m}$  and  $AD = 8\text{m}$ . How much area does it occupy?
2. Find the area of a quadrilateral ABCD in which  $AB = 3\text{cm}$ ,  $BC = 4\text{cm}$ ,  $CD = 4\text{cm}$ ,  $DA = 5\text{cm}$  and  $AC = 5\text{cm}$ .
3. A triangle and a parallelogram have the same base and the same area. If the sides of the triangle are  $26\text{cm}$ ,  $28\text{cm}$  and  $30\text{cm}$ . and the parallelogram stands on the base  $28\text{cm}$ . Find the height of the parallelogram
4. A kite in the shape of a square with a diagonal  $32\text{cm}$  and an isosceles triangle of base  $8\text{cm}$  and sides  $6\text{cm}$  each is to be made of three different shades as shown in fig.  
How much paper of each shade has been used in it?



5. An umbrella is made by stitching 10 triangular pieces of cloth of two different Colours each piece measuring  $20\text{cm}$ ,  $50\text{cm}$  and  $50\text{cm}$ . How much cloth of each Colour is required for the umbrella?
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