Guess Paper 2015
Class – X
Subject - Mathematics (Heron's formula)

1. The measure of each side of an equilateral triangle whose area is $\sqrt{3}$ cm² is [1]
   (A) 8cm   (B) 2cm   (C) 4cm   (D) 16cm

2. Measure of one side of an equilateral triangle is 12cm. Its area is given by [1]

   (A) $9\sqrt{3}$ sq cm   (B) $18\sqrt{3}$ sq cm   (C) $27\sqrt{3}$ sq cm   (D) $36\sqrt{3}$ sq cm

3. Two adjacent side of a parallelogram are 74cm and 40cm one of Its diagonals is 102cm. area of the ||gram is [1]

   (A) 612 sq m   (B) 1224 sq m   (C) 2448 sq m   (D) 4896 sq m

4. The area of rhombus is 96 sq m. If one of its diagonals is 16cm, then length of Its side is (A) 10cm   (B) 8cm   (C) 6cm   (D) 5cm [1]

5. An umbrella is made by stitching 10 triangles pieces of cloth of two different colour, each piece measuring 20cm 50cm and 50cm. How much cloth of each colour is required for the umbrella? [2]

6. The perimeter of a rhombus ABCD is 40cm. find the area of rhombus of Its diagonals BD measures 12cm [2]

7. Find area of triangle with two sides as 18cm & 10cm and the perimeter is 42cm. [2]

8. Find the area of in isosceles triangle, the measure of one of Its equals side being 'b' and the third side 'a'. [2]

9. From a point in the interior of an equilateral triangle perpendiculars drawn to the three sides are 8cm, 10cm and 11cm respectively. Find the area of the triangle to the nearest cm. (use $\sqrt{3}$ =1.73) [3]

10. A parallelogram, the length of whose side is 60m and 25m has one diagonal 65m long. Find the area of the parallelogram. [3]

11. A parallelogram, the measures of whose adjacent sides are 28cm and 42cm, has [3]

one diagonals 38cm. Find Its altitude on the side 42cm.

12. Find the area of a quadrilateral ABCD in which AB=3cm, BC=4cm, CD= 4cm, DA=5cm and AC= 5cm. [3]

13. A field in the shape of a trapezium whose parallel side are 25m and 10m. The non- parallel side are 14m and 13m. Find the area of the field. [5]

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