

# Worksheet 1

## Chapter 12 Heron's Formula

Class IX

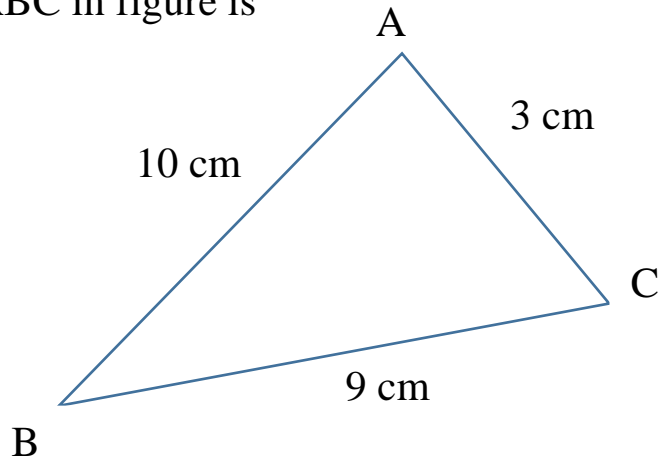
Sub. Mathematics

### MULTIPLE CHOICE QUESTIONS

1. In  $\triangle ABC$ ,  $AB=6\text{cm}$ ,  $BC=7\text{cm}$ ,  $AC=5\text{cm}$  The area of  $\triangle ABC$  is
  - a.  $6\sqrt{6}\text{ cm}^2$
  - b.  $6\sqrt{3}\text{ cm}^2$
  - c.  $6\sqrt{2}\text{ cm}^2$
  - d.  $9\sqrt{6}\text{ cm}^2$
2. In a triangle the sides are 9 cm, 28 cm and 35 cm. The area of the triangle is
  - a.  $30\sqrt{6}\text{cm}^2$
  - b.  $36\sqrt{6}\text{cm}^2$
  - c.  $108\sqrt{2}\text{cm}^2$
  - d. None of the above
3. The sides of a triangle are 20 cm, 50 cm and 50 cm. The area of the triangle is
  - a.  $200\sqrt{6}\text{ cm}^2$
  - b.  $100\sqrt{6}\text{ cm}^2$
  - c.  $400\sqrt{6}\text{ cm}^2$
  - d. None of the above

4. The area of the triangle  $\Delta ABC$  in figure is

- a.  $4\sqrt{7} \text{ cm}^2$
- b.  $11\sqrt{2} \text{ cm}^2$
- c.  $4\sqrt{11} \text{ cm}^2$
- d. None of the above



5. Write the area of a triangle having 5cm base and height 6cm

6. Write the area of an equilateral triangle whose side is 6 cm.

7. State Heron's formula for area of a triangle.

8. In  $\Delta ABC$ ,  $BC = a$ ,  $CA = b$ ,  $AB = c$  Write the Semi-Perimeter  $S$ .

9. Find the area of an isosceles triangle in which  $AB=AC= 5\text{cm}$  and  $BC = 8 \text{ cm}$ .

10. The sides of a triangle are 12:17:25 and its perimeter is 540 cm. Find its area.

11. There is a slide in a park, one of its side walls has been painted in same colour with a message KEEP THE PARK GREEN AND CLEAN. If the sides of the walls are 15 m. 11 m and 6 m. find the area painted in colour.

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