CLASS 8

## **MENSURATION**

## **AREA OF A POLYGON**

## EXERCISE

- **Q.1** Find the area of a triangle whose sides measure 13 cm, 14 cm and 15 cm.
- **Q.2** Find the area of a right-angled triangle whose base is 12 cm and hypotenuse 13 cm.
- Q.3 The base of a triangular field is three times its altitude. If the cost of cultivating the field at

F24.68 per hectare be F333.18, find its base and height.

- Q.4 The altitude drawn to the base of an isosceles triangle is 8 cm and the perimeter is 32 cm. Find the area of the triangle.
- **Q.5** Find the length of the altitude of an equilateral triangle of side  $3\sqrt{3}$  cm.
- Q.6 In two triangles, the ratio of the areas is 4 : 3 and the ratio of their heights is 3 : 4.Find the ratio of their bases.

## **ANSWER KEY**

- **1.** 84 cm<sup>2</sup>
- **2.** 30 cm<sup>2</sup>
- **3.** B = 900 m, H = 300 m.
- **4.** 60 cm<sup>2</sup>
- **5.** 4.5 cm
- **6.** 16 : 9