## RS Aggarwal Class 9 Solutions Areas

## **Exercise 7A**

## Question 1:

Here, b = 24 cm and h = 14.5 cm

Area of triangle = 
$$\left(\frac{1}{2} \times \text{base} \times \text{height}\right)$$
 sq units
$$= \left(\frac{1}{2} \times 24 \times 14.5\right) \text{cm}^2$$

$$= 174 \text{ cm}^2$$

## **Question 2:**

Let height = x and base = 3x

Area of triangle =  $\left(\frac{1}{2} \times \text{base} \times \text{height}\right)$  sq units

∴ Area of triangle =  $\frac{1}{2} \times x \times 3x$   $= \frac{3}{2}x^2$ 

We know that, 1 hectare = 10000 sq metre Rate of sowing the field per hectare = Rs.58

Total cost of sowing the triangular field = Rs.783

⇒ Total cost = Area of the triangular field × Rs. 58  
⇒ 
$$\frac{3}{2}x^2 \times \frac{58}{10000} = 783$$
  
⇒  $x^2 = \frac{783}{58} \times \frac{2}{3} \times 10000$  sq metre  
⇒  $x^2 = 90000$  sq metre  
⇒  $x = 300 \text{ m}$ 

Hence, height = 300 m and base = 900 m.

Read more about RS Aggarwal Class 9 Solutions Areas