

Mathematics

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(Chapter – 12) (Heron's Formula)(Exemplar Problems)

(Class – IX)

Exercise 12.2

Write **True** or **False** and justify your answer:

Question 2:

The area of $\triangle ABC$ is 8 cm^2 in which $AB = AC = 4 \text{ cm}$ and $\angle A = 90^\circ$.

Answer 2:

True

We have $\triangle ABC$ is a right angled triangle at A,

Where sides are given $AB = AC = 4 \text{ cm}$

\therefore Area of a triangle ABC

$$= \frac{1}{2} \times \text{base} \times \text{height}$$

$$= \frac{1}{2} \times AC \times AB$$

$$= \frac{1}{2} \times 4 \times 4$$

$$= 8 \text{ cm}^2$$

