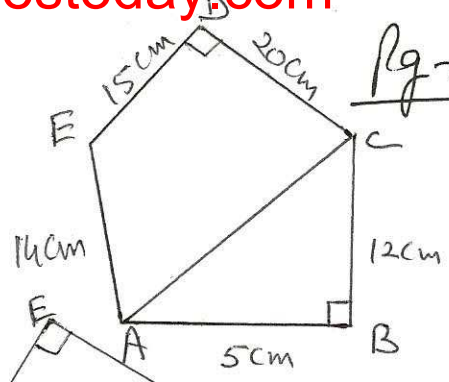


IX - Mathematics Assignment No-02 - Heron's Formula - Area

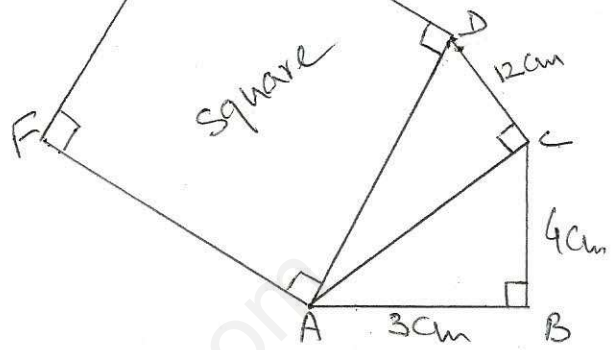
- Q1. The perimeter of a right triangle is 60cm. Its hypotenuse is 25cm. Find the area of Δ .
- Q2. The area of a square field is 4 hectares. Find its perimeter and length of its diagonal.
- Q3. If each side of an equilateral Δ is increased by 2cm, then its area increases by $3\sqrt{3} \text{ cm}^2$. Find the length of each side.
- (4) An isosceles right Δ has an area 800 cm^2 . Find its hypotenuse.
- (5) A Δ has sides 35cm, 54cm and 61cm. Find its area. Also find the length of the smallest altitude.

Cont - Pg-2 \rightarrow

(Q6) Find the area of the adjoining figure in which $\triangle ABC$ is right angle at B and ACBA is a quadrilateral.



(Q7) From the adjoining figure, find the area of square ADEF.



(Q8) Find the area of a quadrilateral ABCD such that length of one diagonal is 80 cm and the length of altitudes on this diagonal from the vertices are 20 cm, 30 cm respectively.

(9) Find area of trapezium whose parallel sides 25 cm and 13 cm and remaining two sides are 15 cm each.

(10) Find the area of quadrilateral ABCD: $AB=7\text{cm}$, $BC=6\text{cm}$, $CD=12\text{cm}$, $AD=15\text{cm}$, $AC=9\text{cm}$

ANSWERS

(1) 150 cm^2	(5) 939.14 cm^2	(8) 2000 cm^2
(2) $P=800\text{ cm}$ $Dig=200\sqrt{2}\text{ cm}$	alt $\rightarrow 15.39\text{ cm}$	(9) $57\sqrt{2}\text{ cm}^2$
(3) 2 cm	(6) 240.70 cm^2	(10) 74.98 cm^2
(4) $\sqrt{2} \cdot 40\text{ cm}$	(7) 169 cm^2	