

IX - Mathematics Assignment No-05 - Heron's Formula - AreaFill the gap:

- (Q1) The length of diagonal of a square of side 5 cm is \_\_\_\_\_
- (Q2) The height of an equilateral  $\Delta$  whose each side is 6 cm is \_\_\_\_\_
- (Q3) The length of diagonal of a rectangle whose adjacent sides are 8 cm and 6 cm respectively is \_\_\_\_\_
- (Q4) The side of an equilateral  $\Delta$  whose area is  $16\sqrt{3} \text{ cm}^2$  is \_\_\_\_\_
- (Q5) The side of a square whose area is 4 hectare is \_\_\_\_\_
- (Q6) The area of a square field whose side is 10 cm each is \_\_\_\_\_
- (Q7) The area of a square field whose perimeter is 20 cm is \_\_\_\_\_

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- (Q8) The cost of white washing a room measuring 5m, 4m, 3m respectively at the rate of Rs 50/sq.m is \_\_\_\_\_
- (Q9) The area of a  $\Delta$  whose sides are 5cm, 12cm, and 13cm is \_\_\_\_\_
- (Q10) Area of an equilateral  $\Delta$  whose each side is  $x$  is \_\_\_\_\_
- (Q11) The area of a  $\Delta$  whose sides are  $a, b, c$  is \_\_\_\_\_
- (Q12) The area of trapezium is \_\_\_\_\_
- (Q13) The area of a rhombus is \_\_\_\_\_
- (Q14) The height of a  $\parallel^m$  whose base is 9cm and area is  $72\text{cm}^2$  is \_\_\_\_\_
- (Q15) The area of an isosceles  $\Delta$  whose equal side is 'a' and base is 'b' is \_\_\_\_\_

ANSWERS:

(Q1) $5\sqrt{2}$ cm	(6) $100\text{cm}^2$	(11) $\frac{1}{2}(s-a)(s-b)(s-c), s = \frac{a+b+c}{2}$
(2) $3\sqrt{3}$ cm	(7) $25\text{cm}^2$	(12) $\frac{1}{2}(a+b) \times h; a \parallel b$
(3) 10 cm	(8) Rs 3700	(13) $\frac{1}{2} d_1 \times d_2; d_1, d_2 - \text{diagonals}$
(4) 8 cm	(9) $30\text{cm}^2$	(14) 8 cm
(5) 200 m	(10) $\frac{\sqrt{3}}{4} x^2$	(15) $\frac{b}{4} \sqrt{4a^2 - b^2}$