



INDIAN SCHOOL AL WADI AL KABIR
Class IX, Mathematics *Worksheet- HERON'S FORMULA*
09-05-2021

OBJECTIVE TYPE (1 Mark)

Q.1.	Each of equal sides of isosceles right triangle is 20 cm. What is the semi perimeter of the triangle?							
	A	$20 + 10\sqrt{3} \text{ cm}$	B	$20 + \sqrt{2} \text{ cm}$	C	$20 + 10\sqrt{2} \text{ cm}$	D	$40 + 20\sqrt{2} \text{ cm}$
Q.2.	The lengths of the three sides of a triangular field are 40 m, 24 m and 32 m respectively. The area of the triangle is							
	A	378 m^2	B	384 m^2	C	789 m^2	D	196 m^2
Q.3.	The base of a right triangle is 8 cm and hypotenuse are 17 cm. Its area will be							
	A	60 cm^2	B	40 cm^2	C	48 cm^2	D	80 cm^2
Q.4.	The length of the sides of a triangle are 4 cm, 6 cm and 8 cm. The length of perpendicular from the opposite vertex to the side whose length is 8 cm, is equal to							
	A	$\frac{3}{4}\sqrt{15} \text{ cm}$	B	$\frac{5}{4}\sqrt{15} \text{ cm}$	C	$\frac{3}{4}\sqrt{5} \text{ cm}$	D	$\frac{5}{4}\sqrt{3} \text{ cm}$
Q.5.	If the perimeter of an equilateral triangle is 90 m, then its area is							
	A	$15\sqrt{3} \text{ m}^2$	B	$45\sqrt{3} \text{ m}^2$	C	$225\sqrt{3} \text{ m}^2$	D	$25\sqrt{3} \text{ m}^2$
Q.6.	An isosceles right triangle has area 8 cm^2 . The length of its hypotenuse is							
	A	$4\sqrt{2} \text{ cm}$	B	$\sqrt{48} \text{ cm}$	C	$2\sqrt{2} \text{ cm}$	D	$\sqrt{6} \text{ cm}$
Q.7.	A student is given three sticks of length 6 cm, 5 cm, 3 cm respectively. His friend asked him to make a triangle with the help of these sticks and find its area.							
	A	$2\sqrt{7} \text{ cm}^2$	B	$7\sqrt{14} \text{ cm}^2$	C	$4\sqrt{14} \text{ cm}^2$	D	$2\sqrt{14} \text{ cm}^2$
Q.8.	If area of an equilateral triangle is $100\sqrt{3} \text{ cm}^2$ then perimeter of this triangle will be							
	A	50 cm	B	70 cm	C	90 cm	D	60 cm

Q.9.	The base and the corresponding altitude of a parallelogram are 10 cm and 3.5 cm, respectively. The area of the parallelogram is							
	A	70 cm^2	B	0.35 cm^2	C	35 cm^2	D	3.5 cm^2
Q.10.	Area of an equilateral triangle is always a/an number [Given that length of each side is rational]							
	A	Integer	B	Not a real number	C	Rational	D	Irrational
Q.11.	Area of a triangle with perimeter 42 cm and length of two sides 18 cm and 10 cm is given by							
	A	$21\sqrt{11} \text{ cm}^2$	B	$21\sqrt{13} \text{ cm}^2$	C	$7\sqrt{13} \text{ cm}^2$	D	$7\sqrt{11} \text{ cm}^2$
Q.12.	The area of an equilateral triangle is $3\sqrt{3} \text{ cm}^2$. The semi-perimeter of the triangle (in cm) is							
	A	$4\sqrt{3} \text{ cm}$	B	$3\sqrt{3} \text{ cm}$	C	$6\sqrt{3} \text{ cm}$	D	$9\sqrt{3} \text{ cm}$
Q.13.	Area of the triangle whose two sides are 8 m, 11 m respectively and perimeter are 32 m, is							
	A	$8\sqrt{10} \text{ m}^2$	B	$8\sqrt{5} \text{ m}^2$	C	$8\sqrt{15} \text{ m}^2$	D	$8\sqrt{30} \text{ m}^2$
Q.14.	The sides of a quadrilateral taken in order are 5 m, 12 m, 14 m and 15 m respectively. If the angle between the first two sides be 90° , its area is							
	A	114 m^2	B	214 m^2	C	144 m^2	D	374 m^2
Q.15.	In a triangle, the sides are 28 cm, 35 cm and 9 cm. Find the area of the triangle.							
	A	$36\sqrt{5} \text{ cm}^2$	B	$36\sqrt{6} \text{ cm}^2$	C	$36\sqrt{7} \text{ cm}^2$	D	$37\sqrt{7} \text{ cm}^2$

Answers

Answers	1	C	2	B	3	A	4	A
	5	C	6	A	7	D	8	D
	9	C	10	D	11	A	12	B
	13	D	14	A	15	B		