

Sub. : Maths Std. IX (CBSE)	Qu 10 : F	Question Paper 10 : Heron's Formula				Total Marks : 30 Time : 1 Hr.	
Section A (Each 1 Marks)							
Multiple choice Questions (MCQs)							
Q.1 : Heron's formula is :							
a) $\Delta = s($	(s+a)(s+b)(s+c)		b) $\Delta = \sqrt{2}$	s(s+a)	$\overline{b(s-b)(s-c)}$		
c) $\Delta = s($	$\overline{(s-a)(s-b)(s-c)}$,s	= a + b -	+ c				
d) $\Delta = \sqrt{s(d)}$	(s-a)(s-b)(s-c), 2s	s = a + b	+ c .				
Q.2 : The angles of a triangle are in the ratio $3:5:7$, the triangle is :							
a) An acute	e angled triangle	b)	An obtuse a	ngled t	riangle		
c) A right t	riangle	d)	Anisosceles	s triang	le.		
Q.3 : The length of each side of an equilateral triangle having an area of $9\sqrt{3}$ cm ² is.							
a) 8cm	b) 36cm	c)	4cm	d)	6cm		
Q.4 : If each side of a scalene Δ is doubled then area would be increased by							
a) 300%	b) 50%	c)	25%	d)	None		
Q.5 : An isosceles right triangle has area 9 cm ² . The length of its hypotenuse is.							
a) $\sqrt{32}$ cm	b) $\sqrt{16}$ cm	c)	$\sqrt{48}$ cm	d)	6cm		
Q.6 : Area of a tria	ngle is equal to:						
a) Base x H	leight	b)	2(Base x He	eight)			
c) ½(Base	x Height)	d)	$\frac{1}{2}$ (Base + H	leight)			
Q.7 : The area of an equilateral triangle having side length equal to $\sqrt{3}/4$ cm (using Heron's formula)							
a) 2/27 so	cm	h)	2/15 sa.cm				
		() (L	2/14				
c) 3√3/64	4 sq.cm	a)	3/14 sq.cm				

Q.8	8 :	The base of a right triangle is 8 cm and the hypotenuse is 10 cm. Its area will be						
		a) 24 cm^2 b) 40 cm^2						
		c) 48 cm^2 d) 80 cm^2						
Q.9	9 :	If the area of an equilateral triangle is $16\sqrt{3}$ cm ² , then the perimeter of the triangle is						
		a) 48 cm b) 24 cm c) 12 cm d) 36 cm						
		For question number 10 to 11 two statement are given one labeled Assertion and other labeled Reason select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below						
		a) both Assertion and reason are correct and reason is correct explanation for Assertion						
		b) both Assertion and reason are correct but reason is not correct explanation for Assertion						
		c) Assertion is true but reason is false.						
		d) both Assertion and reason are false.						
Q.1	10 :	Assertion: the area of an equilateral triangle having each side 4 cm is $4\sqrt{3}$ cm ²						
Reason: Area of an equilateral triangle = $(\sqrt{3}/4) \times a^2$								
Q.1	11 :	Assertion: The right angled triangle if hypotenus is $5\sqrt{2}$ cm then other two side equal to 5						
		cm each						
		Reason: in right angled triangle base ² + perpendicular ² = hypotenus ²						
Section B (Each 2 Marks)								
Q.:	12 :	There is a slide in a park. One of its side walls has been painted in some colour with a message "KEEP THE PARK GREEN AND CLEAN". If the sides of the wall are 15m, 11m and 6m. Find the area painted in colour. (see figure)						
Q.1	13 :	The edges of a triangular board are 6 cm, 8 cm and 10 cm. Find the cost of painting it at $\gtrless 0.09$ per cm ² .						
		OR						
		An umbrella is made by stitching 10 triangular pieces of cloth of two different colour (see						
	figure) each piece measuring 20cm and 50cm and 50 cm. How much cloth of each colour is required for the umbrella?							
Ċ		50 50 cm 20 cm						





