



ST. LAWRENCE HIGH SCHOOL

TOPIC – Area & Perimeter

Subject : Mathematics	Class-9 I	F. M. 15	
WORKSHEET NO 3	Second term	Date: 26.06.2	1
Q.1) <u>Choose the correct option</u> :			(1x15=15)
i) The length of one side of a rhon will be	nbus is 20 cm and ler	ngth of one diagonal of r	hombus is 24 cm. Then its area
a) 483 sq.cm b) 34 ii) In an equilateral triangle three length of the perpendiculars are 8cm a) $10\sqrt{3}$ cm	$\begin{array}{ccc} 8 \text{ sq.cm} & \text{of} \\ \text{perpendiculars are d} \\ \text{, 10cm and 12 cm, th} \\ \text{b} \\ 20\sqrt{3} \text{ cm} \end{array}$	c)843 sq.cm of rawn on the sides from the length of the side c)30 $\sqrt{3}$ cm	d)384 sq.cm a point within the triangle. If the e of the triangle is d)40 $\sqrt{3}$ cm
side is	nbus is 6 cm. IF the a	rea of the rhombus is 24	i sq.cm, then the length of its
a)5 cm b)2 cm	c)3 cm	d)4 cm	
iv) The perimeter of a rhombus is p a	nd area is A and the	sum of its two diagonals	is m. The value of $\frac{p^2+16A}{m^2}$ is
a)16 b) 8	c) 2	(l) 4
v)The perimeter of a rhombus is 40 n	n, and length of its o	ne diagonal is 16 m. The	area of the rhombus is
a)160 sq.m b)96	sq.m c)192 sq.m	d)80 sq.m
vi) The length of a rectangular field is	3 m greater than its	breadth. If the area of t	he field is numerically equal to
its perimeter, then its area will be	6 m	c 21 ca m	d) 24 cg m
d)ID Sy.III D)IO	sy.m le of side 4 cm is	c) 21 Sq.111	u) 24 Sq.111
a) $2\sqrt{3}$ cm b) $\sqrt{7}$	$\frac{1}{3}$ cm cm $\frac{1}{3}$ cm cm $\frac{1}{3}$	$\sqrt{2}$ cm	$1/3\sqrt{3}$ cm
viii)The area of an equilateral triangle	of side "2a" is		13 V 3 C 11
$a)\frac{\sqrt{3}}{2}a^2$ $b)\frac{\sqrt{3}}{2}a^2$	a^2 $c)\sqrt{3}a^2$	$d)2\sqrt{3}a^{2}$	
$\frac{1}{4}$ is $\frac{1}{2}$	a cjysa mandlongth of its o	no diagonal is 12 cm. Th	on the length of the other
diagonal is	in and length of its o	ne ulagonal is 12 cm. m	
a)8 cm b) 6	cm	c) 16 cm	d) 12 cm
x)If the side of a square is equal to th	e side of an equilate	ral triangle, then the rat	o of their areas is
a) 1: 2 b) 2: $\sqrt{3}$	c)4 : $\sqrt{3}$ c	1) 1 : 4	
xi)The height of an equilateral triar	ngle of side 4 cm is		
a) $2\sqrt{3}$ cm	b) $\sqrt{3}$ cm	c) $\sqrt{2}$ cm	d)3√ <u>3</u> cm
xii) The area of a rhombus is 96 sq.	cm. If the length of	ts one diagonal is 12 cm	then the length of the other
diagonal is			
a)8 cm b) 6 cm	c) 16 cm	(l) 12 cm
xiii) If the area of right angled isoscel	es triangle is 8 sq. cn	n, then its length of the h	nypotenuse is
a)√26 cm	b) √28cm	c)√30cm	d)√32cm
xiv) If the perimeter of an equilateral triangle is 60m, then its area will be			
a) $50\sqrt{3}$ sq.m b) $100\sqrt{3}$ sq	.m c) 75√2s	q.m d)100√2	lsq.m
xv)If the area of an equilateral trian	ngle is $9\sqrt{3}$ sq. cm, th	en length of its each side	e is
a) o cm	DJ3 CIII	cja cm	a)12 cm

-ChaitaliRoy