



-ChaitaliRoy

## ST. LAWRENCE HIGH SCHOOL

## **TOPIC –Theorems on Area**

Subject : Mathematics		Class-9	F. M. 15			
WOR	KSHEET NO	4	Second terr	n Da	ate: 03.07.21	
Q.1)	Choose the cor	rect option:				(1x15=15)
i) [	D, E and F are mid	dpoint of sides B	C, CA and AB re	spectively of	$a$ ΔABC. If $\Delta$ ABC =	16 sq. cm, then the
area c	of the shape of tra	apezium FBCE is				
	a) 40sq.cn			c)12sq.cm	•	0sq.cm
ii)	A, B, C, D are the	midpoints of sid	les PQ, QR, RS a	nd SP respec	tively of a parallelo	ogram PQRS. If area of the
shape	of parallelogram	PQRS = 36 sq. c	m, then area of	ABCD field is	;	
	a) 24 sq.		b)18 sq. cm	•	30 sq. cm	d)36 sq. cm
iii) O i	s any point inside	e parallelogram <i>A</i>	ABCD. If $\Delta$ AOB +	$+\Delta$ COD = 16	sq. cm, then area	of the shape of the
parall	elogram ABCD is					
a)8 sq		b)4 sq.		c)32 sq.cm	•	sq.cm
iv)D is	the midpoint of	side BC of $\Delta$ AB	C. E is the midpo	oint of side B	D and O is the mid	point of AE , area of
	ular field BOE is					
a) <sup>1</sup>	x Area of Δ ABC	b) $\frac{1}{4}$ x Area of $\Delta$	$ABCc)^{\frac{1}{c}}$ x Area	of $\triangle$ ABC d)	$\frac{1}{8}$ x Area of $\triangle$ ABC	
		•	•		0	parallel and if their area are
	P, Q and T respe	_				
	•	b)P = R = $\frac{T}{2}$	c)2P = 2R = T	d)	P = R = T	
-		_				hen area of Δ AEFis
a)12 s		b)21 sq.cm	c) 14 s		d) 7 sq.cm	Herrarea or 2 Herrs
•	•	•	•	•	•	the diagonal BD. Ratio of
	of the quadrilate			c maponito	51712 and 2 61 50111	the diagonal BB1 hatio of
a)2 : 1	•	b) 3:2	c)1:1		d)4 : 1	
		•	•		•	in the area of $\Delta$ BPD is
• ,	a)4 sq. cm		b)12 sq. cm		8 sq. cm	d)6 sq. cm
ix) Ir	•	midpoint of side	•	· ·	•	AB. If AE = 2 EB and area of
	BC is 36 sq. cm th	-	-		,	
	a)9sq.cm		b) 18 sq.cm	c)	12 sq.cm	d) 15 sq.cm
x)G is	•	ABC and D is the	•	•	•	is 8 sq. cm, then the area of
	will be					, , , , , , , , , , , , , , , , , , , ,
a)24 s		b)32 sq. cm	c)48 s	g. cm	d)64 sq. cm	
-	•	•	-	•	•	= 17 mtrs, then area of the
triang		· <del>_</del>				•
	a) 60 sq.m	b)40 so	q.m	c)120 sq.m	n d)30:	sq.m
xii)	•		•	•		is " b " sq. cm then
a)a = 2		b) a = b	c)b = 2		b = 3a	·
•		are is equal to a	rea of such a tri	angle whose	area is 81 sq. cm,	then the length of each side
	square is	·		· ·	•	C
	a) 6cm		b) 9 cm	c)3	3 cm	d)12 cm
xiv)	The point of inte	rsection of the n	nedians of $a\Delta$ A	BC is G. If the	e area of the triang	le is 60 sq. cm, then the area
of∆ G	BC will be					
a)10 s	q. cm	b) 30 s	q. cm	c) 20 sq. cı	n d)40	sq. cm
xv)T	he perimeter of a	a parallelogram i	s 21 cm. The he	ight of the p	arallelogram with r	espect to the base PS is 4cm,
and th	ne height with res	spect to SR is 3 c	m. Then the are	a of the para	allelogram is	
	a) 12 sq. (	cm	b)18 sq. cm	c)2	24 sq. cm	30 sq. cm