



## ST. LAWRENCE HIGH SCHOOL

## **TOPIC** – Theorems on Area

Subject : Mathematics	Class-9	Second termF. M	1. 15
WORKSHEET NO 4	Solutions	5	Date: 03.07.21
Q.1) <u>Choose the correct option</u> :			(1x15=15)
i) D, E and F are midpoint of sides area of the shape of trapezium FBCE c)12sq cm	BC, CA and AB is	respectively of $a\Delta A$	BC. If $\Delta$ ABC = 16 sq. cm, then the
ii) A, B, C, D are the midpoints of s shape of parallelogram PQRS = 36 sq. b)18 sq. cm	ides PQ, QR, R cm, then area	S and SP respectively of ABCD field is	y of a parallelogram PQRS. If area of the
iii) O is any point inside parallelogram parallelogram ABCD is c)32 sq.cm	h ABCD. If Δ AC	DB + ∆ COD = 16 sq. (	cm, then area of the shape of the
iv)D is the midpoint of side BC of $\Delta$ A triangular field BOE is d) <sup>1</sup> x Area of $\Delta$ ABC	BC. E is the mi	dpoint of side BD and	d O is the midpoint of AE , area of
v)A parallelogram, a rectangle and a t P, Q and T respectively, a)P = R = 2T	riangle stand	on same base and be	etween same parallel and if their area are
vi) ABDE is a parallelogram and F is the	he midpoint of	DE. If area of $\Delta$ ABD	is 28 sq. cm then area of $\Delta$ AEFis
vii)ABCD is a parallelogram. E and F a areas of the quadrilateral BCFE and $\Delta$	re respectively BCD is	<i>the midpoints of AE</i>	3 and DC. Join the diagonal BD. Ratio of
viii)In $\Delta$ ABC, P is the midpoint of the d)6 sq. cm ix) In $\Delta$ ABC, D is the midpoint of sic	median AD. If le BC. From th	the area of $\Delta$ ABC is e point D, DE is perpe	24 sq. cm, then the area of $\Delta$ BPD is endicular on AB. If AE = 2 EB and area of
$\Delta$ ABC is 36 sq. cm then area of $\Delta$ ABC c) 12 sq.cm x)G is the centroid of $\Delta$ ABC and D is 1 $\Delta$ ABC will be	DE is he midpoint o:	f the side BC. If the a	area of $\Delta$ GBD is 8 sq. cm, then the area of
c)48 sq. cm xi)In the right angled $\triangle$ ABC, <u>/B</u> = 9 triangle is a) 60 sq. m	0°, and if the t	base BC = 15 mtrs, hy	potenuse AC = 17 mtrs, then area of the
xii) AD is a median of $\triangle$ ABC. If the s c)b = 2a	area of $\Delta$ ABD	is "a "sq.cmand the a	area of $\Delta$ ABC is " b " sq. cm then
<ul><li>xiii) If the area of a square is equal to of the square is</li><li>b) 9 cm</li></ul>	area of such a	triangle whose area	is 81 sq. cm, then the length of each side
xiv) The point of intersection of the of $\Delta$ GBC will be c) 20 sq. cm	e medians of a	$\Delta$ ABC is G. If the area	a of the triangle is 60 sq. cm, then the area
xv)The perimeter of a parallelogram and the height with respect to SR is 3 b)18 sq. cm	n is 21 cm. The cm. Then the	height of the paralle area of the parallelo	elogram with respect to the base PS is 4cm, gram is
6/10 SQ. CIT			-ChaitaliRoy