

ST. LAWRENCE HIGH SCHOOL

TOPIC – Internal and External Division of Straight Line Segment							
Subject : Mathematics			C	lass-9	F.	F. M. 15	
WORKSHEET NO 1			Second Term		D	ate: 07.11.2020	
Q.1)	Choose the co	prrect option	<u>ı</u> :			(1x15=15)	
i)	Find the mid-point of the points (6,0) and (0,-6).						
::)	a) (0,3) b) (3,-3) c) (3,0) d) (-3,0) (i) If the two end points of the diameter of a circle as $(1, -3)$ and (-3)					a audinatas af tha aantus af	
11)	the circle are:	the circle are:					
	a) (-4,6)	b) (-3,3)	c) (4 <i>,-</i> 6)	d) (3,-3)			
iii)	The co-ordina	The co-ordinates of the mid-point of the points (a+b , a-b) and (a-b , b-a) are					
	a) (0,a)	a) (0,a) b) (0,b) c) (a,0) d) (b,0)					
iv)	The co-ordina	ites of end po	oints of a diai	meter of a circle a	re (7,9) and (-1,-3). T	he co-ordinates of	
	a) (3 3)	h) (4 6)	c) (3 -3)	d) (4 -6)			
v)	A point which	divides the	line segment	joining two points	s (2,-5) and (-3,-2) ex	ternally in the ratio 4:3. The	
,	ordinate of ci	rcle	0			,	
	a) -18	b) -7	c) 18	d) 7			
vi) If the co-ordi	nates of the	four consecu	tive vertices of a p	barallelogram are (-2	,-1), (1,0), (4,3) and (1,t) then	
	the value of t	is:	-) 2	-1) 2			
vii	a) I) If the points	D) Z $D(1 2) \cap (A E)$	C) 3 () $R(5,7)$ and	0) -2 S(x y) are the vert	ices of a narallelogra	m DORS then	
VII	a) $x=2$, $y=4$	4 b) x=3. v=	-4 c) x=2. v=	(x,y) are the vert =3 d) x=2. v=5		in r Qito, then	
vii	i) The mid-poir	nt of line seg	ment joining	two points (p,2m	, and (-p+2m, 2p-2m) is	
	a) (p,m)	b) (2,-m)	c) (m,-p)	d) (m,p)			
ix) The abscissa	at the point	P which divid	es the line segme	nt joining two points	A (1,5), B(-4,7) internally in the	
	ratio 2:3 is		N 4	D			
	a) -1	b) 11 fellowing er	c) 1	d) -11	aid of a trionale have	ne vertices (2 E) (4 1) and	
Х	$(1 \ \Omega)^2$	tollowing ar	re the co-ordi	nates of the centi	old of a triangle navi	ng vertices (-2,-5), (4,-1) and	
	(1,0): a) (-1.2)	b) (12)	c) (21)	d) (-2.1)			
xi) The co-ordinates of the three consecutive vertices of a triangle are (3.0). (-3.0) and (0.3). The co-or						0) and (0,3). The co-ordinates	
	of the point	of intersection	on of the med	lians of the triang	le are	, , , ,	
	a) (1,0)	b) (0,1)	c) (0,0)	d) (1,1)			
xii) The length of the line segment AB is 10 units. P is a point on AB and AP = 6 units, PB = 4 units. If A(1,2)							
	B(-9,2), then	co-ordinate	s of P are	1) (4 2)			
vii	a) (-3,2) i) The co-ordir	D) (-5,2)	C)(5,2) C centroid of th	1) (-4,2) e triangle formed	by the points (a-b b	-c (b-c c-a) and (c-a a-b) are	
	a) (a.0)	b) (b.0)	c) (c.0) $(c.0)$	d) (0.0)	by the points (a-b, b	-0, (b-0, 0-a) and (0-a, a-b) are	
xiv) Find the co-ordinate of the point which divides the line segment joining (6,-4) and (-8,10) in the rational segment is a segment joining (6,-4) and (-8,10) in the rational segment is a segment joining (6,-4) and (-8,10) in the rational segment is a segment joining (6,-4) and (-8,10) in the rational segment joining (6,-4) and (-8,10) in the segment joining (6,-4) and (-8,10) in the rational segment joining (6,-4) and (-8,10) in the segment joining (6,-4) and (-8,10)							
	internally						
	a) (0,-26)	b) (-26,0)	c) (0, -26/7)	d) None of the	se		
xv) Find the co-ordinate of the point which divides the line segment joining (-1,2) and (4,-5) in the ratio 3 : 2							
	externally	h(10.14)	(14.10)	d) none of the	.		
	a) (14,-19)	J) (-13,14)	UJ (-14,19)	uj none or the	3C		