

ST. LAWRENCE HIGH SCHOOL

TOPIC – Internal and External Division of Straight Line Segment

Su	bject : Mathematics	Class-9	Second Term	F. M. 15	
W	ORKSHEET NO 1	Solut	ion	Date: 07.11.2020	
Q.1)	Choose the correct option:			(1x15=15)	
i)	Find the mid-point of the po b) (3,-3)	ints (6,0) and (0,	,-6).		
ii)	If the two end points of the the circle are:	diameter of a cir	rcle ae (1,-3) and (-7,9),	then the co-ordinates of the centre of	
iii)	The co-ordinates of the mid- c) (a.0)	-point of the poi	nts (a+b , a-b) and (a-b	o , b-a) are	
iv)	The co-ordinates of end poir centre of circle is	nts of a diameter	r of a circle are (7,9) an	d (-1,-3). The co-ordinates of	
v)	A point which divides the lin ordinate of circle	e segment joinir	ng two points (2,-5) and	l (-3,-2) externally in the ratio 4:3. The	
v	i) If the co-ordinates of the fo the value of t is:	ur consecutive v	ertices of a parallelogr	am are (-2,-1), (1,0), (4,3) and (1,t) then	I
vi	i) If the points $P(1,2)$, $Q(4,6)$,	R(5,7) and S(x,y)	are the vertices of a p	arallelogram PQRS, then	
vi	ii) The mid-point of line segment d) (m.p)	ent joining two p	points (p,2m), and (-p+2	2m, 2p-2m) is	
i	a) The abscissa at the point P v ratio 2:3 is a) -1	which divides the	e line segment joining t	wo points A (1,5), B(-4,7) internally in t	he
>	 Which of the following are (1,0)? b) (1,-2) 	the co-ordinates	s of the centroid of a tr	iangle having vertices (-2,-5), (4,-1) and	
х	i) The co-ordinates of the thr of the point of intersection b) (0.1)	ee consecutive v of the medians	vertices of a triangle are of the triangle are	e (3,0), (-3,0) and (0,3). The co-ordinate	S
xi	i) The length of the line segm B(-9,2), then co-ordinates c b) (-5.2)	ent AB is 10 unit of P are	ts. P is a point on AB an	d AP = 6 units, PB = 4 units. If A(1,2) and	d
xi	ii) The co-ordinates of the cer d) (0,0)	ntroid of the tria	ingle formed by the po	ints (a-b, b-c), (b-c, c-a) and (c-a, a-b) ar	e
х	iv) Find the co-ordinate of the internally c) (026/7)	e point which div	vides the line segment	joining (6,-4) and (-8,10) in the ratio 3 :	4
x	 v) Find the co-ordinate of the externally 	e point which div	ides the line segment j	oining (-1,2) and (4,-5) in the ratio 3 : 2	

a) (14,-19)