



ST. LAWRENCE HIGH SCHOOL

TOPIC – Theorems on Concurrence

Subject : Mathematics	Class-9	Second Term	F. M. 15
WORKSHEET NO 3	Solutions		Date: 14.11.2020
Q.1) <u>Choose the correct option</u> :			(1x15=15)
 i) If the length of the circumradius of a right angled triangle is 7.5 cm then the length of its hypotenuse is c) 15 cm 			
ii) / is the incentre of \triangle ABC. If d) 80°	f <u>/BIC</u> = 130° then me	asure of <u>/BAC</u> is	
iii) The internal bisectors of <u>/B</u> and <u>/C</u> of Δ ABC, intersect at the point O. If <u>/A</u> = 80°, then measure of <u>/BOC</u> is c) 130°			
iv) In Δ ABC , <u>/B</u> = 90°. If AB = 24 cm and BC = 7 cm, then the length of the circumradius of the triangle is d) 12.5 cm			
 v) O is the circumcentre of Δ ABC. If <u>/BOC</u> = 80°, then <u>/BAC</u> is a) 40° 			
vi) O is the orthocentre of Δ AB b) 140°	C. If <u>/BAC</u> = 40°,then ,	<u>/BOC</u> is	
vii) O is the incentre of Δ ABC. If c) 52°	<u>/BOC</u> = 116°,then me	easure of <u>/BAC</u> is	
viii) O is the circumcentre of Δ AI c) 50°	3C. If <u>/ABC</u> = 72°, <u>/AC</u>	<u>B</u> = 68°, then measure	of <u>/OBC</u> is
ix) O is the orthocentre of \triangle AB d) 80°	C. If <u>/BOC</u> = 100°,the	n measure of <u>/BAC</u> is	
x) The length of the side of an e c) 2√3 cm	equilateral triangle is	6cm. Then its circumra	adius is
xi) The inradius of an equilatera c) 1/3 rd	l triangle is what frac	tion of its height?	
xii) The circumradius of an equil b) 2/3 rd	ateral triangle is wha	t fraction of its height	
xiii) In Δ ABC, the internal bisect the measure of <u>/BAC</u> is b) 80°	or of <u>/ABC</u> and the ex	ternal bisector of <u>/AC</u>	<u>3 intersect at O. If /BOC</u> = 40°, then
xiv) The point equidistant from t b) Incentre	he sides of a triangle	is called	
xv) The point equidistant from the d) Circumcentre	he vertices of a triang	le is called	

-Chaitali Roy