



ST. LAWRENCE HIGH SCHOOL

TOPIC – Properties of Parallelogram

Subject : Mathematics	Class-9 Fi	irst termF. M. 15
WORKSHEET NO 15	Solutions	Date: 06.03.2021
Q.1) <u>Choose the correct option</u> :		(1x15=15)
i) PQRS is a parallelogram whose sides PQ = $4x + y$, QR = 13, RS = 21 and SP = $3x - 2y$, then		
ii) PQRS is a rhombus whose one diag	gonal is PR. If <u>/</u>	<u>/RPQ</u> = 35°, then <u>/RSP</u> =
iii) The diagonal of a rectangle makes an diagonals is	angle of 30° v	with one of its side. Then the acute angle between the
iv)In a parallelogram ABCD , AB = 6cm ar diagonals AC and BD intersect at O, then	nd the length o the perimete	of the diagonals AC and BD are 9.8 cm and 8.2 cm. If the er of Δ AOB is
v)The length of the side of a rhombus is other diagonal is	10 cm and if tl	he length of one diagonal is 6 cm, then the length of the
vi) The perimeter of a parallelogram is 2 smaller side will be	5cm. If the len	ngth of its greater side is is 7.5 cm, then the length of its
vii)ABCD is a square. BOC is an equilater $\frac{AOD}{CO}$ will be	al triangle whe	ere the point O is outside the square. Then the value of
viii)In the rectangle PQRS, the diagonals d) 80°	PR and QS into	tersect at O. If <u>/PQS</u> = 50°, then the value of <u>/SOR</u> is
ix) In a rhombus PQRS, the diagonals PR b) 40°	and QS interse	sect at O. If <u>/PRS</u> = 50°, then <u>/OSR</u> is
x)In a parallelogram PQRS, the ratio of <u>/I</u> b)100°,80°	PQR and /QRS	is 1 : 5, then the value of <u>/QPS</u> and <u>/PSR</u> are and
xi)In a parallelogram ABCD, the point of <u>/BAC</u> = 2 <u>/ABD</u> , then the value of <u>/BCD</u> is a) 80°	of intersection s	n of diagonals AC and BD is O. If <u>/AOD</u> = 120°, and
xii)QS is a diagonal of a parallelogram a)less	PQRS. If PQ >	QR then <u>/QSR</u> is than <u>/PSQ</u>
xiii) ABCD is a rhombus. If <u>/ABD</u> = 40°, th d)100°	en the value c	of <u>/BCD</u> is
xiv) If the measure of an angle of a parangle isb) 120°	rallelogram is l	half of its complementary angle, then the complementary
xv) PQT is a equilateral triangle on the c)21°	side PQ of a r	rhombus PQRS. If <u>/QRS</u> = 78°, then the value of <u>/PST</u> is