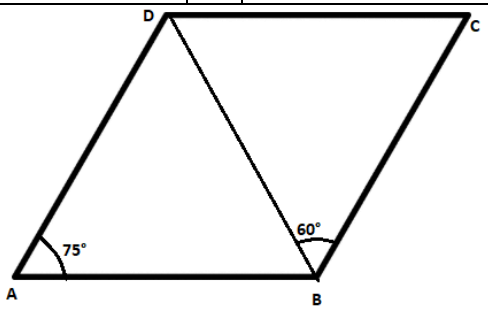
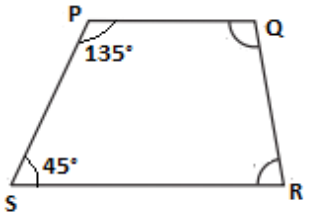
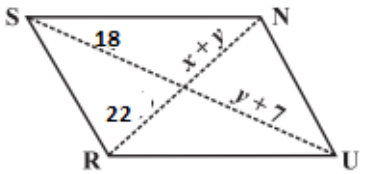
INDIAN SCHOOL AL WADI AL KABIR

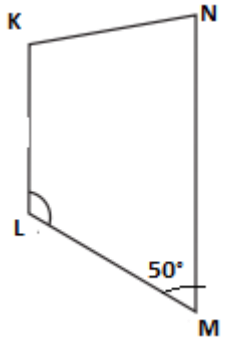
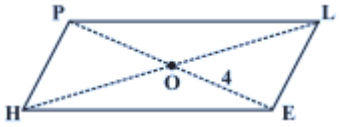
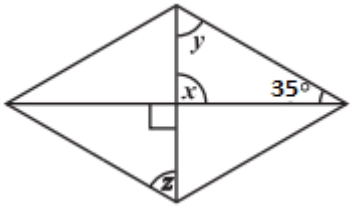
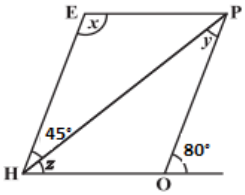
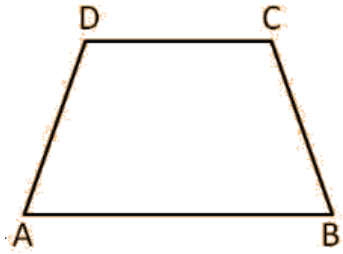
Class VIII, Mathematics ***Worksheet- UNDERSTANDING QUADRILATERALS-PROPERTIES OF SPECIAL QUADRILATERALS***

11-06-2020

OBJECTIVE TYPE (1 Mark)

Q.1.	Two adjacent angles of a parallelogram are equal. The measure of each angle is :							
	A	90°	B	180°	C	60°	D	120°
Q.2.	The quadrilateral having only one pair of opposite sides parallel is called a:							
	A	Square	B	Rhombus	C	Trapezium	D	Parallelogram
Q.3.	In a trapezium ABCD, AB is parallel to CD. If $\angle A = 50°$, then $\angle D$ is :							
	A	110°	B	130°	C	70°	D	90°
Q.4.	The diagonals of a parallelogram ABCD intersect at O. If $\angle BOC = 85°$ and $\angle BDC = 65°$, then $\angle OAB$ is :							
	A	10°	B	20°	C	40°	D	95°
Q.5.	The minimum interior angle possible for a regular polygon is :							
	A	60°	B	90°	C	180°	D	120°
Q.6.	Name the quadrilateral if two pairs of adjacent sides are equal:							
	A	Rectangle	B	Parallelogram	C	Trapezium	D	Kite
Q.7.	In the figure, ABCD is a parallelogram in which $\angle BAD = 75°$ and $\angle DBC = 60$. Then $\angle CDB$ is equal to: 							
	A	55°	B	60°	C	45°	Q	50°

Q.8.	If the adjacent angles of a parallelogram are equal, then the parallelogram is a							
Q	A	Rectangle	B	Trapezium	C	Rhombus	D	None of these
Q.9.	A parallelogram with all sides equal is called							
	A	Kite	B	Trapezium	C	Rectangle	D	Rhombus
Q.10	In a quadrilateral KLMN, $\angle K = 115°$, $\angle L = 65°$, $\angle M = 115°$, and $\angle N = 65°$, identify the type of quadrilateral							
	A	Parallelogram	B	Kite	C	Trapezium	D	Square
Fill in the blanks(1mark)								
Q11.	If PQRS is a parallelogram, $\angle P = 105°$, then the measure of $\angle Q$ is _____.							
Q12.	A rectangle is a _____ quadrilateral.							
Q13.	The adjacent sides of a rhombus are 18units and 3x units. Then the value of x is _____.							
Q14.	In a rhombus, diagonals intersect at _____ angles.							
Q15.	_____ is a regular quadrilateral.							
SECTION B (2 marks)								
Q16.	ABCD is a rectangle whose diagonals are (2x+6) cm and (3x +4) cm. Find the value of x and also find the length of the diagonal.							
Q17.	**Explain how this figure is a trapezium. Which of its two sides are parallel?** 							
Q18.	Find the value of x and y from the given parallelogram. 							

Q19.	**Find the value of m ∠K, if KL is parallel to MN** 
Q20.	**From the fig. find the value of OL if OE = 4 and HL is 6 more than PE. Given figure PHEL is a parallelogram.** 
	SECTION C (4marks)
Q21.	Lengths of two sides of a parallelogram are in the ratio of 2: 3. Find the sides of the parallelogram if its perimeter is 120cm.
Q22.	Find the value of x, y and z from the given rhombus. 
Q23.	Find the value of x, y and z from the given parallelogram
Q24.	Find the value of x, y and z from the given parallelogram 
Q25.	In a trapezium ABCD, AB is parallel to CD, ∠A: ∠D = 7: 2 and ∠C = 4: 5. Find the angles of the trapezium. ∠B: