

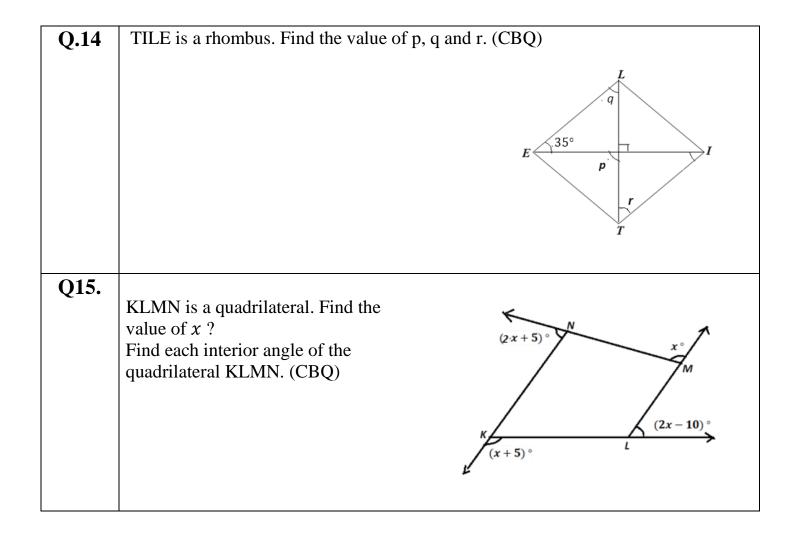
INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics (2024-25)

Worksheet DTQ – UNDERSTANDING QUADRILATERALS

	SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)						
Q1.	Adjacent angles of a parallelogram are in the ratio 3:7. Find the values of all angles.						
Q2.	Measure of one angle of a parallelogram is 108°. Find the other three angles.						
Q3.	Find the number of sides of a regular polygon with each interior angle measuring 120°.						
Q4.	Three angles of a quadrilateral are equal. Fourth angle is 150°. Find the measure of other three angles.						
Q5.	In parallelogram ABCD, find the value of a and b 15 23 24 25 26 27 28 36-1						
Q6.	KLMN is a trapezium. Find the value of the missing						
	angles m and n?						
Q7.	Find the value of angle measure 'x' in the given figure.						
Q8.	The measure of each exterior angle of a regular polygon is 18°. Find the number of sides of the polygon and hence the measure of each interior angle.						
	VK/CLASS VIII/WODKSHEET/INDEDSTANDING OHADDII ATEDALS/DTO/SHIII ANII /0004-05						

	SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)	
Q9.	If ABCD is a trapezium and AB \parallel CD, \angle DAB = 68° and \angle ABC = 82°, find the measures of \angle ADC and \angle BCD.	
Q10.	In parallelogram ABCD, $\angle A = (3x - 10)^{\circ}$, $\angle B = (5x + 30)^{\circ}$. Find all the angles of the parallelogram.	С
Q11.	In parallelogram PQRS, find the value of x , y and z . S $x+y$ y y y y y y y	
Q12.	KLMN is a rectangle. Find the value of x and also find the length of the diagonal. M $x = x + 5$ $x = x$	
	LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)	
Q13.	In given figure, find the value of a,b , c and d and hence verify that $a+b+c+d=360^\circ$ (CBQ)	•



	ANSWERS									
Q1.	54°,126°,54° and 126°.	Q2.	108°, 72°, 108° and 72°	Q3.	6 sides					
Q4.	70° each	Q5.	a = 4, b = 8	Q6.	$m = 36^{\circ}, n = 74^{\circ}$.					
Q7.	120°	Q8.	20 sides,162°	Q9.	∠ADC = 112°, and ∠BCD = 98°					
Q10.	$\angle A = 50^{\circ}, \angle B = 130^{\circ},$ $\angle C = 130^{\circ} \text{ and } \angle D = 50^{\circ}$	Q11.	x = 9, y = 6 and $z = 14$	Q12.	x = 2, length of diagonal =22cm					
Q13.	$a = 100^{\circ}, b = 130^{\circ},$ $c = 60^{\circ} and d = 70^{\circ}$	Q14.	$p = 90^{\circ}, q = 55^{\circ} \text{ and } r = 55^{\circ}$	Q15.	$x = 60^{\circ}$, $\angle K = 115^{\circ}$, $\angle L = 70^{\circ}$ and $\angle M = 120^{\circ}$, $\angle N = 55^{\circ}$					