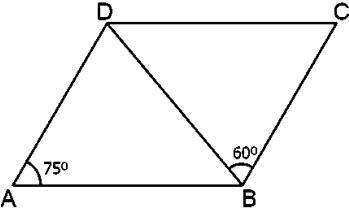
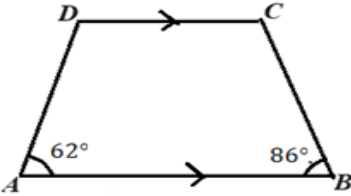
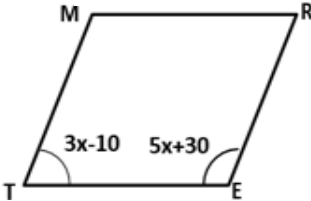
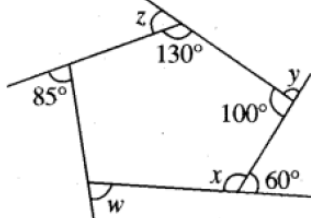
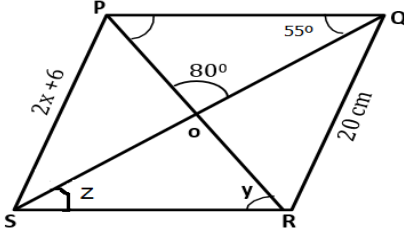
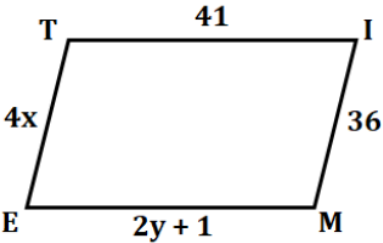


INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics
WORKSHEET (2025-26)
UNDERSTANDING QUADRILATERALS

Multiple Choice Questions

Q.1	In a parallelogram, its diagonals:							
	A	Are equal	B	Are perpendicular	C	Bisect each other	D	Equal and bisect each other
Q.2	The measure of each exterior angle of a regular hexagon is:							
	A	360°	B	60°	C	90°	D	270°
Q.3	Which of the following groups of angles are possible angles of a quadrilateral?							
	A	115°, 155°, 45°, 90°	B	60°, 110°, 60°, 190°	C	60°, 70°, 120°, 110°	D	90°, 55°, 80°, 125°
Q.4	A polygon with 10 sides has ----- diagonals.							
	A	25	B	30	C	40	D	35
Q.5	A quadrilateral has three acute angles each measuring 73°. The measure of the fourth angle is:							
	A	141°	B	105°	C	150°	D	120°
Q.6	The measure of exterior angle of a regular polygon with 12 sides is:							
	A	30°	B	50°	C	15°	D	120°
Q.7	If PQRS is a parallelogram then $\angle P - \angle R$ is:							
	A	90°	B	0°	C	180°	D	360°
Q.8	If all the sides of a parallelogram are equal and the adjacent angles are 120° and 60°, then the quadrilateral is:							
	A	Rectangle	B	Square	C	Rhombus	D	Kite
Q.9	Name the quadrilateral whose diagonals are equal.							
	A	Trapezium	B	Kite	C	Rhombus	D	Rectangle
Q.10	Find the number of sides of a regular polygon each of its exterior angle has a measure of 45°.							
	A	5	B	6	C	7	D	8
LONG ANSWER QUESTIONS:								
Q.11	Measure of one angle of a parallelogram is 80°. Find the other three angles.							

Q.12	In the figure ABCD is a parallelogram in which $\angle BAD = 75^\circ$ and $\angle DBC = 60^\circ$. Then find $\angle CDB$.	
Q.13	If ABCD is a trapezium and $AB \parallel CD$ $\angle DAB = 62^\circ$ and $\angle ABC = 86^\circ$, find the measures of $\angle ADC$ and $\angle BCD$.	
Q.14	Find the values of x and y in the following parallelogram.	
Q.15	Find the value of x in the parallelogram TERM.	
Q.16	Find the values of x, y, z and w from the given figure.	
Q.17	In a parallelogram PQRS, $PQ = 2x+7$, $QR = 4x-5$, $RS = 3x-8$. Find the perimeter of the parallelogram.	
Q.18	Two adjacent angles of a parallelogram are $(3y + 10)^\circ$ and $(3y - 4)^\circ$. Find the measure of all angles of the parallelogram.	
Q.19	In figure, PQRS is a parallelogram and $PS = 2x+6$, $RQ = 20\text{cm}$. Find the values of x, y and z.	
Q.20	CASE STUDY: Diya has a parallelogram shaped lawn in back yard of her house. Observe the figure and answer the following questions. a) What will be the value of y. b) In the parallelogram $\angle E : \angle M = 2:3$ then find the value of $\angle E$. c) Find the value of x from the figure.	
		

ANSWERS							
1.	C) Bisect each other	2.	B) 60°	3.	C) $60^\circ, 70^\circ, 120^\circ, 110^\circ$	4.	D) 35
5.	A) 141°	6.	A) 30°	7.	B) 0°	8.	C) Rhombus
9.	D) Rectangle	10.	D) 8	11.	$100^\circ, 80^\circ, 100^\circ$	12.	$\angle CDB = 45$
13.	$\angle ADC = 118$ $\angle BCD = 94$	14.	$X = 10,$ $Y = 20$	15.	20	16.	$X = 120, Y = 80,$ $Z = 50, W = 85$
17.	184units	18.	97, 83,97,83	19.	$x = 7, Y = 45^\circ, Z = 55^\circ$	20.	$Y = 20, \angle E = 72^\circ,$ $x = 9$