CLASS 8

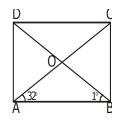
UNDERSTANDING QUADRILATERALS

KINDS OF QUADRILATERALS

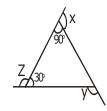
EXERCISE

Q.1	PQRS is a parallelogram. What special name will you give it if the following					
	additional facts are known ?					
	(i) $PQ = PS$	(ii) \angle SPQ = 90°	(iii) $PQ = PS$ and $\angle SPQ = 90^{\circ}$			
Q.2	PQRS is a trapezium in which PQ RS. IF $\angle P = \angle Q = 50^\circ$, what are the measures of					
	the other two angles	s ?				
Q.3	ABCD is a trapezium in which AB CD. If $\angle A = \angle B = 40^\circ$, what are the measure of the measure					
	other two angles ?					
Q.4	The angles A, B, C and D of a quadrilateral ABCD are in the ratio 1 : 3 : 7 : 9					
	(i) Find the measure of each angle.					
	(ii) Is ABCD a trapezium ? Why ?					
	(iii) Is ABCD a parallelogram ? Why ?					
Q.5	Two adjacent angles of parallelogram are in the ratio of 1:5. Find all the angles of the					
	parallelogram.					
Q.6	One angle of a parallelogram is of measure 70°. Find the measures of the remaining					
	angles of the parallelogram.					
Q.7	One angle of a parallelogram is of measure 80°. Find the measures of the remaining					
	angles of the paralle	logram.				
Q.8	The adjoining figure GUNS is a parallelogram. Find x and y.					
		S 26 N 3 / 18 G 3y-1 U				

- **Q.9** Two adjacent angles of a parallelogram are in the ratio 2:3. Find all the angles of the parallelogram.
- **Q.10** ABCD is a rectangle with $BAC = 32^{\circ}$. Determine DBC.



Q.11 Find x + y + z.



ANSWER KEY

1.	(i) Rhombus	(ii) Rectangle		(iii) Square	
2.	130°, 130°				
3.	Each 140°				
4.	(i) 18°, 54°, 126°, 16	62°	(ii) Yes	(iii) No	
5.	30°, 150°, 30°, 150°				
6.	110°, 70°, 110°				
7.	100°, 80°, 100°				
8.	x = 6, y = 9				
9.	72°, 108°, 72°, 108°				
10.	58°				
11.	360°				