INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics *Worksheet-Understanding Quadrilaterals*
ANSWERS   05-05-20

	OBJECTIVE TYPE (1 Mark)							
Q.1.	In a quadrilateral the angles are in the ratio 1:2:3:4. The measure of the smallest angle is							
	A	36^0	**B**	40^0	**C**	18^0	**D**	20^0
Q.2.	Each interior angle of a regular polygon is 135^0.How many sides does it have?							
	A	10	**B**	8	**C**	6	**D**	5
Q.3.	In a quadrilateral three angles are equal and the fourth angle is 150^0.Then the measure of equal angles is							
	A	30^0	**B**	50^0	*C*	70^0	**D**	80^0
Q.4.	The sum of interior angles of polygon with 12 sides							
	A	1800^0	**B**	2160^0	**C**	360^0	**D**	1620^0
Q.5.	The measure of interior angle of a regular pentagon is							
	A	72^0	**B**	108^0	**C**	120^0	**D**	80^0
Q.6.	Each exterior angle of a regular polygon is 72^0.How many sides does it have?							
	A	4	**B**	5	**C**	6	**D**	10
Q.7.	Three angles of a quadrilateral are equal, fourth angle is a right angle. Then the measure of each angles							
	A	50^0	**B**	80^0	**C**	90^0	**D**	70^0
Q.8.	The measure of each interior angle of a regular Hexagon							
	A	120^0	**B**	72^0	**C**	90^0	**D**	100^0

Q.9.	The sum of exterior angles of a pentagon is							
	A	540^0	B	360^0	C	720^0	D	180^0
Q.10.	The minimum value of interior angle in a regular polygon							
	A	100^0	B	120^0	C	60^0	D	45^0

Fill in the blanks(1mark)

Q11.	The number of diagonals in hexagon-----------
Q12.	The maximum exterior angle possible for a regular polygon is ----------------
Q13.	The measure of each exterior angle of a regular octagon is--------------
Q14.	In quadrilateral ABCD, $\angle A = 60^0$, $\angle B = 70^0$, $\angle C = 120^0$,then the measure of $\angle D$ is-------
Q15.	Each exterior angle of a regular polygon is 36^0.Then the measure of interior angle is ---------

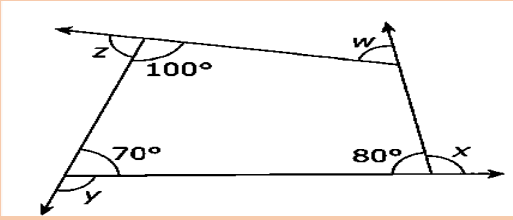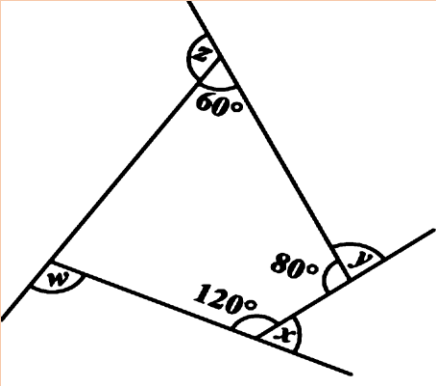## SECTION B (2 marks)

Q16.	PQRS is a quadrilateral .Find the values of x and y.
Q17.	The interior angle of a regular polygon is 156^0.Find the measure exterior angle and the number of sides.
Q18.	If two angles of a quadrilateral are 68^0 and $72^0$and the measure of two angles are equal, then find the angles.
Q19.	From figure, find the value of x.
Q20.	Find the number of sides of a polygon whose exterior and interior angles are in the ratio 2:7.

SECTION C (4marks)

Q21.	Find the missing angles.
Q22.	If the angles of a quadrilateral are $4x, 3x + 10^0$, $2x + 10^0$ and $4x + 15^0$, then find value of x and the measure of the angles.
Q23.	Two angles of a quadrilateral are 65^0 and 55^0. If the measures of other two angles are in the ratio 5:7, then find the measure of each angle.
Q24.	Find the values of x,y,z.w
Q25.	The angles of a pentagon are in the ratio 2: 3: 4: 5: 6. Find the measure of each angle.

Answers

1	A	2	B	3.	C	4	A
5	B	6	B	7	C	8	A
9	B	10	C	11	9	12	120^0
13	45^0	14	110^0	15	144^0	16	y= 157^0 x=23^0
17	24^0,15 sides	18	110^0	19	85^0	20	9 sides
21	x=100^0, y=110^0 z= 80^0,w=70^0	22	x=25,100^0,85^0, 60^0,115^0	23	100^0,140^0	24	x=60^0,y=100^0, z=120^0 w= 80^0
25	54^0,81^0,108^0, 135^0,162^0						

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