

INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics *Worksheet-Understanding Quadrilaterals*
03-05-20

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°	B	360°	C	720°	D	180°

Q.10.	The minimum value of interior angle in a regular polygon							
	A	100°	B	120°	C	60°	D	45°

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, $\angle A = 60^\circ$, $\angle B = 70^\circ$, $\angle C = 120^\circ$, then the measure of $\angle D$ is-----
Q15.	Each exterior angle of a regular polygon is 36° . Then the measure of interior angle is -----

SECTION B (2 marks)

Q16.	PQRS is a quadrilateral .Find the values of x and y.	
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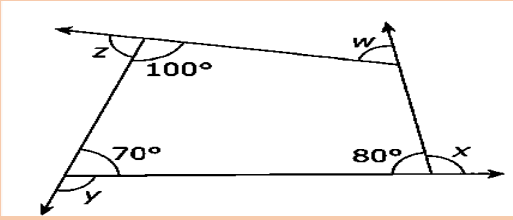
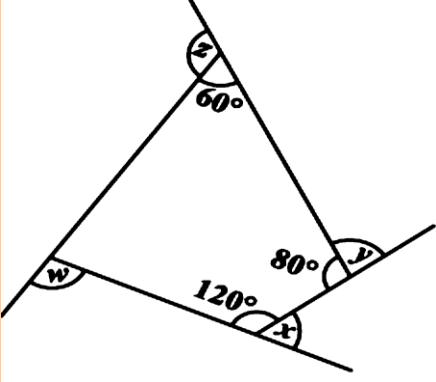
Q17.	The interior angle of a regular polygon is 156° . Find the measure exterior angle and the number of sides.
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Q18.	If two angles of a quadrilateral are 68° and 72° and the measure of two angles are equal, then find the angles.
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Q19.	From figure, find the value of x.	
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Q20.	Find the number of sides of a polygon whose exterior and interior angles are in the ratio 2:7.
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SECTION C (4marks)

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