

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics

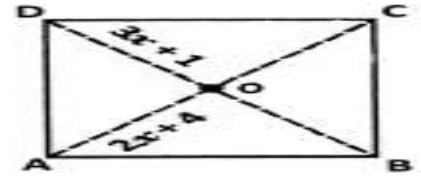
TOPIC- Summer Holiday Homework (2022-23)

MULTIPLE-CHOICE QUESTIONS

Q.1 The perimeter of a rectangle is 260 cm. if one adjacent side exceeds the other by 10 cm, what are the sides of a rectangle?

- A** 60cm, 70cm **B** 45cm, 50cm **C** 50cm, 60cm **D** 65cm, 55cm

Q.2 ABCD is a rectangle. Its diagonals meet at O.
Find the value of x if $OA = 2x + 4$ and $OD = 3x + 1$.



- A** 2 **B** 3 **C** -2 **D** -3

Q.3 Each interior angle of a regular polygon is 144° . How many sides does the polygon have?

- A** 8 **B** 12 **C** 9 **D** 10

Q.4 The measures of two adjacent angles of a parallelogram are in the ratio 5:7. Find the measure of each of the angles of the parallelogram?

- A** $110^\circ, 70^\circ$ **B** $75^\circ, 105^\circ$ **C** $106^\circ, 74^\circ$ **D** $15^\circ, 165^\circ$

Q.5 PQRS is a trapezium in which $PQ \parallel SR$ and $\angle P = 130^\circ$, $\angle Q = 110^\circ$. Then $\angle R$ is equal to

- A** 70° **B** 50° **C** 60° **D** 120°

FILL IN THE BLANKS

Q.6 The number of diagonals in a pentagon are _____.

Q.7 Quadrilaterals have two pairs of equal adjacent sides and equal diagonals intersect at 90° _____.

Q.8 The measure of each exterior angle of a regular polygon of 8 sides _____.

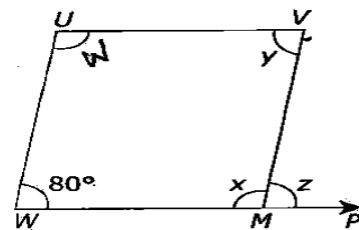
Q.9 A polygon that is both equiangular and equilateral is called a _____ polygon.

Q.10 The diagonals of a rhombus are _____ bisectors of one another.

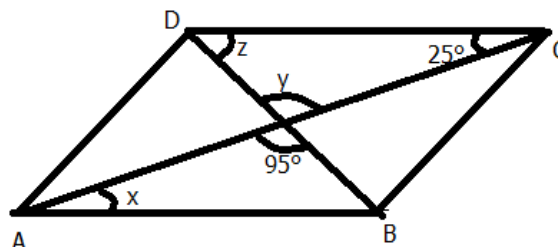
LONG ANSWER TYPE QUESTIONS

Q.11 Construct a quadrilateral NEWS in which $NE = 7\text{cm}$, $EW = 6\text{cm}$, $\angle N = 60^\circ$, $\angle E = 120^\circ$ and $\angle S = 85^\circ$.

Q.12 In the given parallelogram, find the values of x, y, z , and w and give reasons.



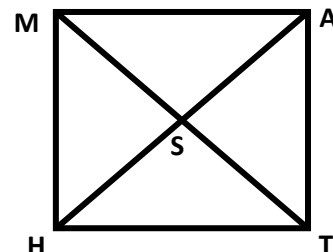
Q.13 Find the value of x, y and z , if ABCD is a parallelogram.



Q.14 Construct a Quadrilateral ABCD where $AB = 5\text{cm}$, $BC = 7\text{cm}$, $DC = 5.5\text{cm}$, $AD = 6.5\text{cm}$ and $AC = 8.5\text{cm}$.

Q.15 In the figure, MATH is a SQUARE then find the following

- (i) $MA = 8\text{cm}$, then $AT =$ _____
- (ii) $\angle HST =$ _____
- (iii) $\angle MAT =$ _____
- (iv) $\angle HMT =$ _____
- (v) If $HS = 2\text{cm}$, then $HA =$ _____ and $MT =$ _____



HAPPY HOLIDAYS !!!!.....

Answers	1	A	2	B	3	D	4	B
	5	A	6	Five	7	Square	8	45°
	9	Regular	10	perpendicular	12	$Y = 80$ $X = 100$ $Z = 80$ $W = 100$	13	$Y = 95$ $X = 25$ $Z = 60$