

INDIAN SCHOOL AL WADI AL KABIR
CLASS IX, MATHEMATICS
REVISION MID TERM
26-08-2021

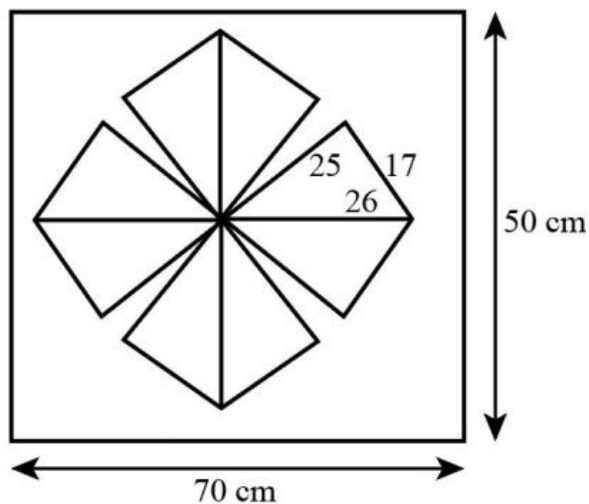
OBJECTIVE TYPE QUESTIONS

Q.1.	Which point lies on the x – axis :							
	A	(0 , 2)	B	(-3 , 2)	C	(2 , 0)	D	(-1 , -2)
Q.2.	How many straight lines can be drawn through two given lines :							
	A	None	B	Only 1	C	Two	D	Three
Q.3.	What is the area of an equilateral triangle with side 2cm:							
	A	$\sqrt{6} \text{ Cm}^2$	B	$\sqrt{3} \text{ Cm}^2$	C	$\sqrt{4} \text{ Cm}^2$	D	4 Cm^2
Q.4.	The edges of a triangle are 6cm,8cm and 10cm.Find the area of the triangle :							
	A	36 Cm^2	B	24 Cm^2	C	17 Cm^2	D	52 Cm^2
Q.5.	$\sqrt{9}$ is a ----- number							
	A	Rational	B	Irrational	C	Neither rational nor irrational	D	None of these
Q.6.	Two parallel lines intersect at :							
	A	One point	B	Two points	C	Three points	D	Never intersect
Q.7.	$\sqrt{6} \times \sqrt{27}$ is equal to :							
	A	$9\sqrt{2}$	B	$3\sqrt{3}$	C	$2\sqrt{2}$	D	$9\sqrt{3}$
Q.8.	The perimeter of an equilateral triangle is 60 cm.Then its area is :							
	A	$10\sqrt{3} \text{ Cm}^2$	B	$15\sqrt{3} \text{ Cm}^2$	C	$20\sqrt{3} \text{ Cm}^2$	D	$100\sqrt{3} \text{ Cm}^2$
Q.9.	The points (-4 , -8) lies in :							
	A	First quadrant	B	Second quadrant	C	Third quadrant	D	Fourth quadrant

Q.10.	What is the minimum number of lines required to make a closed figure :							
	A	One	B	Two	C	Three	D	Four
Q.11.	Which of the following is an irrational number							
	A	$\sqrt{16}$	B	$\sqrt{\frac{12}{4}}$	C	$\sqrt{12}$	D	$\sqrt{100}$
Q.12.	Two angles whose sum is 180° are called :							
	A	Vertically opposite	B	Complementary	C	Adjacent	D	Supplementary
Q.13.	How many lines can pass through one point :							
	A	One	B	Two	C	Three	D	Infinite
Q.14.	Abcissa of all the points on y – axis is :							
	A	1	B	Any number	C	0	D	-1
Q.15.	Sum of the measures of an angle and its vertically opposite angles is always :							
	A	Zero	B	Thrice the measure of original angle	C	Double the measure of original angle	D	Equal to the measure of original angle

DESCRIPTIVE TYPE QUESTIONS

- Q.16. A design is made on a rectangular tile of dimensions 50 cm x 70 cm as shown in the figure given below. The design shows eight triangles each of sides 26 cm, 17 cm and 25 cm. Find the total area of the design and the remaining area of the tile.



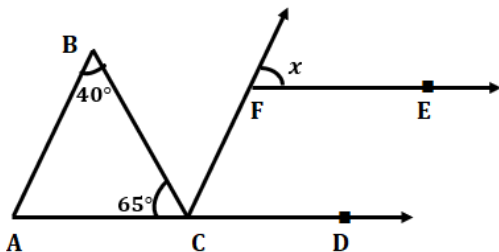
- Q.17. The perimeter of rhombus is 146 cm. One of its diagonals is 55 cm. Find the length of the other diagonal and area of the rhombus.

- Q.18. Find the values of a and b: $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = a + \frac{7}{11}\sqrt{5}b$

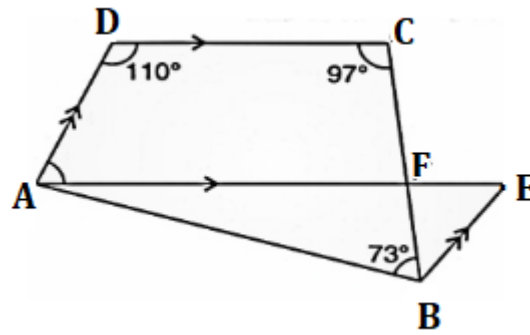
- Q.19. Simplify: $\frac{7\sqrt{3}}{\sqrt{10+\sqrt{3}}} - \frac{2\sqrt{5}}{\sqrt{6+\sqrt{5}}} - \frac{3\sqrt{2}}{\sqrt{15+3\sqrt{2}}}$

- Q.20. Evaluate: $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \times \left\{ \left(\frac{9}{25}\right)^{\frac{3}{2}} \div \left(\frac{5}{2}\right)^{-3} \right\}$

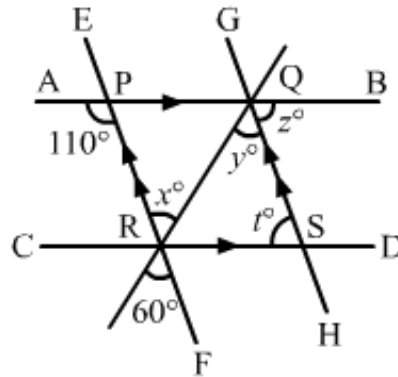
- Q.21. In the figure, if $AB \parallel CF$ and $CD \parallel FE$, then find the value of x.



Q.22. In the below figure ABCD is a quadrilateral in which $\angle ABC = 73^\circ$, $\angle C = 97^\circ$ and $\angle D = 110^\circ$. If $AE \parallel DC$ and $BE \parallel AD$ and AE intersects BC at F, find the measure of $\angle EBF$.



Q.23. In the below given figure if $AB \parallel CD$ and $EF \parallel GH$. Find the values of x , y , z and t .



Q.24. Find the coordinates of the point
 (i) Which lies on both x and y-axis.
 (ii) Whose abscissa is 4 and lies on x-axis.
 (iii) Whose ordinate is -2 and lies on y-axis.

Q.25. Plot the points (x, y) given by the following table.

x	-1	2	5	6	-3	-5	7
y	3	4	3	-2	-1	-2	1

Answers

Answers								
Answers	Q.1	C	Q.2	B	Q.3	B	Q.4	B
	Q.5	A	Q.6	D	Q.7	A	Q.8	D
	Q.9	B	Q.10	C	Q.11	C	Q.12	D
	Q.13	D	Q.14	C	Q.15	C		
	Q.16	Total area: 1632 cm ² and remaining area is 1868 cm ² .	Q.17	Diagonal = 48 cm, area of rhombus= 1320 cm ² .	Q.18	a = 0, b = 1	Q.19	1
	Q.20	1	Q.21	x = 75°	Q.22	∠EBF = 27°	Q.23	x=y = 60°, t=z=70°
	Q.24	(i)(0,0) (ii) (4,2) (iii) (0,-2)						