INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics

WORKSHEET(OTQ) Basic Geometrical Ideas

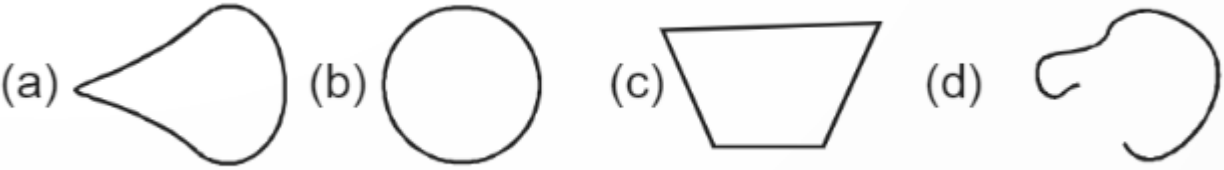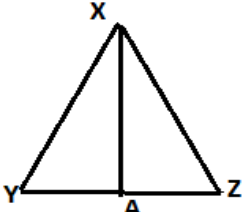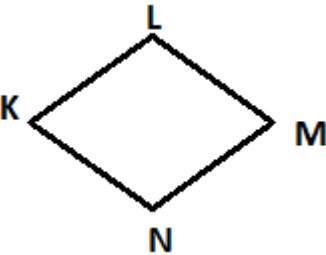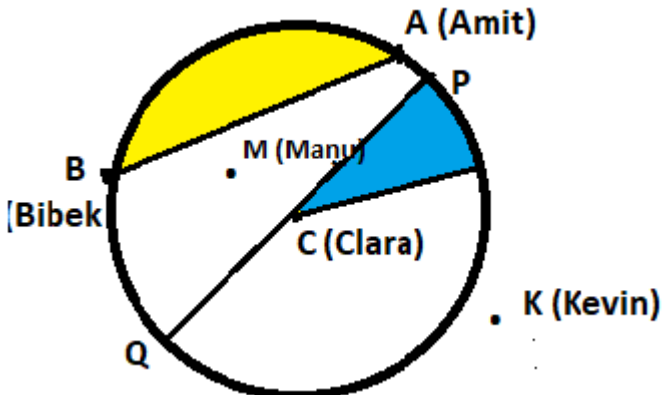## Multiple Choice Questions

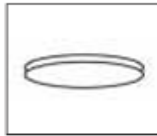| Q1.	Edwin drew an open curve on the blackboard. How many endpoints are there in an open curve?							
	A	1	B	2	C	infinite	D	0
Q2.	Sanita used a thread to measure the length of boundary of her new bangle. The length of boundary of a circle is its							
	A	radius	B	centre	C	circumference	D	diameter
Q3.	Two pencils are kept crossed as in figure. The point at which the pencils cross is the							
	A	Point of intersection	B	Centre	C	endpoint	D	radius
Q4.	Number of line segments that can be drawn joining two points is							
	A	2	B	1	C	infinite	D	0
Q5.	If the lines p and q never meet each other and has equal distance between them, they are							
	A	intersecting	B	equal	C	parallel	D	ray
Q6.	Which of the following forms a pair of opposite angles in the given quadrilateral?							
	A	$\angle A$ and $\angle B$	B	$\angle B$ and $\angle C$	C	$\angle D$ and $\angle A$	D	$\angle A$ and $\angle C$
Q7.	A polygon with minimum number of sides is a							
	A	quadrilateral	B	circle	C	line	D	triangle

Q8.								
	Which of the given curves is not a simple closed curve?							
	A	Figure a	B	Figure b and c	C	Figure c	D	Figure d
Q9.				Count the number of triangles in the given figure.				
	A	1	B	2	C	3	D	4
Q10.				KLMN is a quadrilateral. Which of the following forms a pair of diagonals of the quadrilateral KLMN?				
	A	$\overline{KL}$ and $\overline{MN}$	B	$\overline{KN}$ and $\overline{NM}$	C	K and M	D	$\overline{KM}$ and $\overline{LN}$

Source based question: Few students in a class were playing a game during PE lesson. They stand at different positions of the circle. Their location is denoted by the first letter of their name. Based on above information, answer the following questions.

Q11.	The line segment $\overline{AB}$ represents which part of the circle?							
	A	Diameter	B	chord	C	radius	D	centre
Q12.	Kevin stands on which position of the circle?							
	A	Exterior	B	Interior	C	boundary	D	None of these
Q13.	Who stands at the center of the circle?							

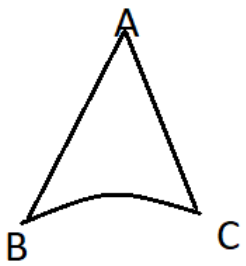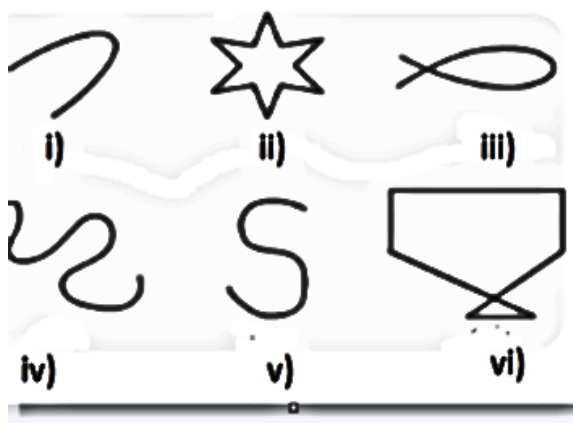|	A	Kevin	B	Manu	C	Clara	D	Amit
Q14.	Which are the points in the interior of the circle?							
	A	B and Q	B	P and K	C	A and B	D	M and C
Q15.	The shaded region between Arc AB and Chord AB represents which part of the circle?							
	A	Sector	B	segment	C	Diameter	D	chord

Case study questions: Sanju learnt knitting from her grandmother. She realized that the knitting needles crossing each other represents perfect example of intersecting lines in real life, which was taught by her Math teacher. She arranges the needle at different positions to analyse the lines and angles.

Q 16. Which of the given pictures can be an example of a line segment?

A.
B.
C.
D.

Q 17. How many lines can pass through a given point?

Q 18.

A
B
C
D

Which of the given figures represents a simple open curve?

Q 19.		State the reason why ABC cannot be considered as a polygon.
Q 20.		Sanju made different shapes with a piece of knitting wool. Which of the given figures is a polygon? State reason.

ANSWERS

1.	2 B	2.	C) circumference	3.	A) Point of intersection	4.	B) 1
5.	C) Parallel	6.	1) ∠A and ∠C	7.	D) triangle	8.	D) figure d
9.	C) 3	10.	KM and LN	11.	B) Chord	12.	A) Exterior
13.	C) Clara	14.	M and C	15.	B) Segment	16.	B)
17.	Infinite	18.	C) and D)	19.	Side BC is not a line segment	20.	Only ii) is simple closed curve made of line segments.