

INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics

Basic Geometrical Ideas– *Worksheet (DTQ)*

28-08-2021

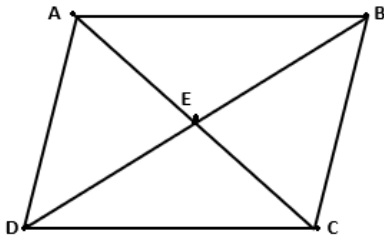
Descriptive Questions-Short Answer Type (2 marks each)

Q1.

Draw the following:

- Simple closed curve
- A curve which is made up of line segments

Q2.



From the given quadrilateral Name:

- 8 triangles
- 2 Diagonals

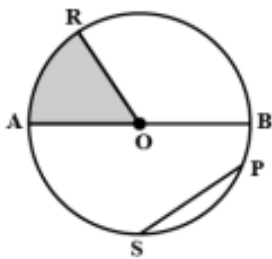
Q3.

Draw a Quadrilateral and mark:

- Point A in the interior
- Point B on the boundary

Descriptive Questions- Long Answer Type 1 (3 marks each)

Q4.



Fill in the blanks according to the given figure:

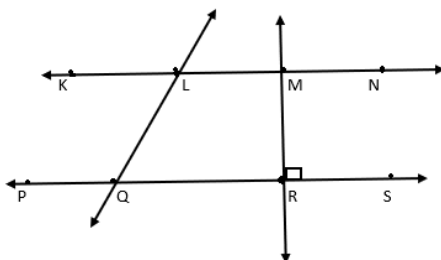
- The shaded region is representing _____.
- _____ is the diameter of the circle
- _____ is a chord other than diameter.

Q5.



From the given figure name 6 line segments

Q6.

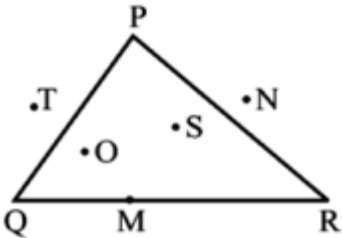
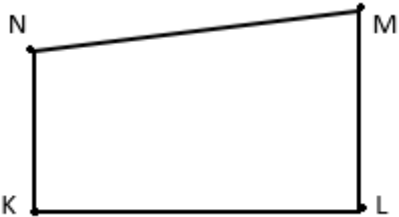



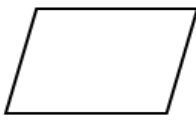


From the given figure name the following:

- Line passing through point Q
- One pair of intersecting lines.
- A pair of parallel line

Q7.	Draw a polygon having five sides. Name it as polygon ABCDE. Draw all its possible diagonals.
Q8.	Fill in the blanks: a) The _____ divide a circle into two semicircles. b) The longest Chord in a circle is _____. c) The length of the diameter is twice the _____.
Q9.	Draw a rough sketch of quadrilateral EFGH and state: a) Two diagonals b) A pair of opposite sides
Q10.	Draw a polygon with 6 sides and shade its interior.

Descriptive Questions Long Answer Type 2 (4 marks each)

Q11.		<ul style="list-style-type: none"> i) Observe the figure and name the polygon. ii) Name two points in the interior of the polygon. iii) Name two points in the exterior of the polygon. iv) Name one point on the boundary of the polygon.
Q12.		<p>Observe the figure and name:</p> <ul style="list-style-type: none"> a) One pair of adjacent angles. b) One pair of adjacent sides. c) One pair of opposite sides. d) One pair of opposite angles.
Q13.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Classify the given curves as open or closed:</div> <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;">  <p>(i)</p> </div> <div style="text-align: center;">  <p>(ii)</p> </div> <div style="text-align: center;">  <p>(iii)</p> </div> <div style="text-align: center;">  <p>(iv)</p> </div> </div>	

Q14.

Observe the figure and identify:

- i) The angle
- ii) Three points in the interior of the angle.
- iii) Four points on the angle
- iv) Name the vertex and arms of the angle

Q15. Draw a circle and mark the following:

- a) A radius
- b) A chord
- c) A sector
- d) An exterior point
- e) A diameter
- f) A segment

ANSWERS

Answers	1.		2		3	a) $\Delta ABC, \Delta ADC, \Delta AEB, \Delta BEC, \Delta CED, \Delta DEA, \Delta ADB, \Delta CDB$ b) AC, BD	4	a) sector b) AB c) SP
	5	AB, AC, AD, BC, BD, CD	6	a) PQ/QL b) PQ/QL c) KN and PS	7		8	a) diameter b) diameter c) radius
	9		10		11	a) ΔPQR b) .O,.S c) .T,.N d).M	12	a) $\angle K, \angle N$ b) KN, NM c) NM, KL d) $\angle K, \angle M$
	13	a) closed b) open c) open d) closed	14	a) $\angle PQR$ b). S, .X,.Z c) .P,.Q,.R and .O d).Q and QP,QR	15			
