



**INDIAN SCHOOL DARSAIT**  
**DEPARTMENT OF MATHEMATICS**



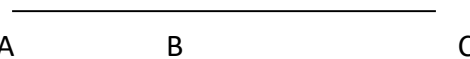
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|--|-----------------------------------|----------------------------|
| Subject : Mathematics                    | Topic 4 : Basic Geometrical Ideas | Date of Worksheet : 7/8/17 |
| Resource Person: Mrs. Jayalakshmi Ratish |                                   | Date : 17/8/17             |
| Name of the Student : _____              | Class & Division : VI             | Roll Number : __           |

**Section A - Basic Skills**

1 Study the figure and answer the following.

(a) Name the three points

(b) Name the three line segments



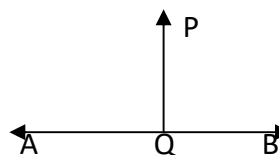
2 From the following figure write the names of all the

(a) Points

(b) Rays

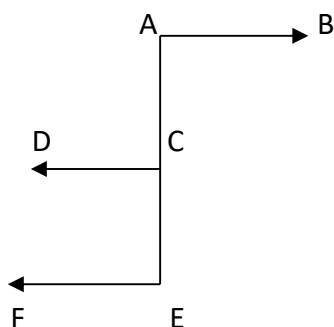
(c) line segments

(d) lines

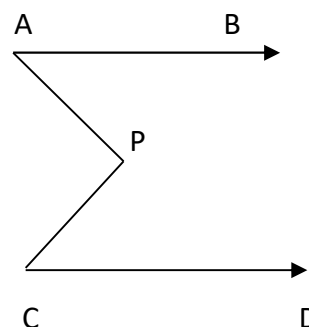


3 Identify and name the line segments and rays in the figure

(a)

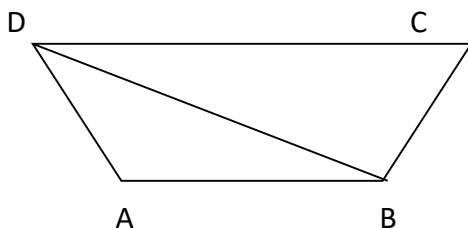


(b)



**Section B**

4 Name the angles formed in the following figure.



5 Name the following

(a) A simple closed curve made up entirely of line segments.

(b) A line segment with its endpoints on the circle and passing through the centre of the circle.

(c) A figure formed by two rays starting from the same point.

(d) A polygon with the least number of sides.

(e) A line segment that connects the centre of a circle to the point on the circle.

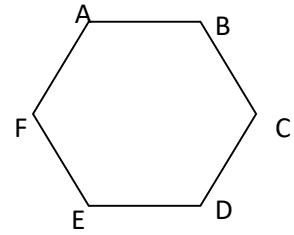
(f) A part of the circumference of a circle.

(g) A line passing through a circle and intersecting the circle at two points.

(h) The part of a circle enclosed by a chord and an arc of the circle.

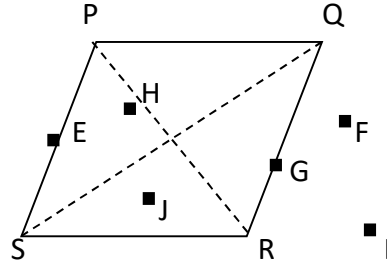
6 Study the polygon and answer the following

- (a) What is the name of the polygon.
- (b) How many sides does it have? What is its special name according to the number of sides it have?
- (c) How many vertices does it have?
- (d) How many angles does it have?



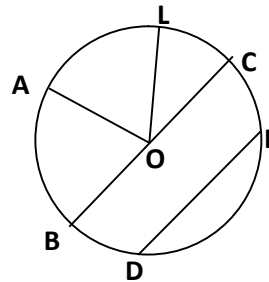
7 In quadrilateral PQRS, name the following.

- (a) Four sides
- (b) Four pairs of adjacent sides
- (c) Two pairs of opposite sides
- (d) Four angles
- (e) Four pairs of adjacent angles
- (f) Two pairs of opposite angles
- (g) A pair so diagonals
- (h) Two points which are in the interior of the quadrilateral
- (i) Two points which are on the exterior of the quadrilateral
- (j) Two points which are on the quadrilateral



8 The given figure is a circle with centre 'O'. Identify

- (a) Radius(any four)
- (b) Diameter of the circle
- (c) 2 chords
- (d) Sector of the circle
- (e) Segment of the circle.

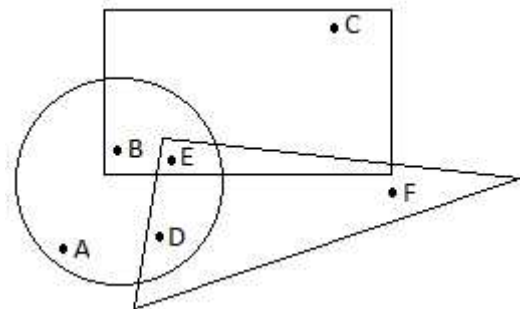


### Section C – HOTS

9

Name the points –

- (a) inside the circle
- (b) inside the triangle
- (c) inside the rectangle



10 Fill in the blanks-

- (a) The boundary of a circle is \_\_\_\_\_.
- (b) The interior of a triangle along with its boundary is called \_\_\_\_\_.
- (c) A \_\_\_\_\_ has its end – point on the circle.
- (d) Lines, which never meet are \_\_\_\_\_ lines.