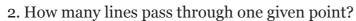
Important Questions for CBSE Class 6 Maths Chapter 4 - Basic Geometrical Ideas

Basic Geometrical Ideas

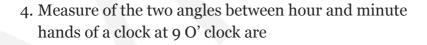
- 1. Which of the pair of adjacent angles in the given figure?
 - 1. $\angle \angle B$, $\angle \angle D$
 - $2. \angle \angle B, \angle \angle C$
 - 3. None of these
 - $4. \angle \angle A, \angle \angle C$



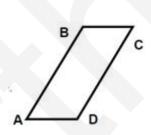
- 1. Two
- 2. One
- 3. Three
- 4. Count less

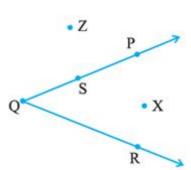


- 1. in the exterior of the angle
- 2. on the angle
- 3. in the interior of the angle
- 4. away from the angle



- 1. 2700,9002700,900
- 2.600,3000600,3000
- 3.750,2850750,2850
- 4. 300,3300300,3300





- 5. Radius of a circle is _____.
 - 1. half its diameter
 - 2. thrice its diameter
 - 3. one-fourth its diameter
 - 4. 4 times its diameter.

6. Match the following:-

Column A	Column B
Every circle has a point at	(a) Diameter
2. Line segment passing through the centre of a circle	(b) Centre
3. Half of the diameter	(c) Arc
4. The path in the circle formed from two points on the circle	(d) Radius

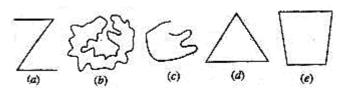
7. Fill up the following:

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- 2. A line segment has a definite _____.
- 3. Curves that do not intersect themselves are called _____ curves.
- 4. An 'angle' is made up of _____ rays having a common end point.

8. State true or false:

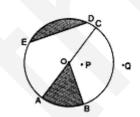
- 1. A point indicates a definite position.
- 2. A line segment is a part of a plane.
- 3. A line is a set of points closely arranged.
- 4. Two lines in a plane always intersect in a point.
- 9. Classify the following curves as
 - 1. open
 - 2. closed.
- 10. Draw rough diagrams to illustrate the following :
 - 1. Open curve.
 - 2. Closed curve.
- 11. How many end points a line segment have?

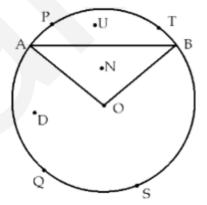


12. Illustrate, if possible, each one of the following with a rough diagram:

- 1. A closed curve that is not a polygon.
- 2. An open curve made up entirely of line segments.
- 3. A polygon with two sides.
- 13. From the figure identify
 - 1. the centre of circle.
 - 2. three radii
 - 3. a diameter
- 14. Write the points which are:
 - 1. in the minor sector OAPB
 - 2. minor segment ATB
 - 3. major sector OAQB
 - 4. major arc AQB
 - 5. minor arc APB
- 15. Define the following terms:
 - 1. Line segment,
 - 2. Line,
 - 3. Intersecting lines,
 - 4. Parallel lines







Answer

1.

b. $\angle \angle B$, $\angle \angle C$

Explanation: Adjacent angles have a common side. In this figure side BC contain two angles which are angle B and angle C making them adjacent angles.

2.

d. Count less

Explanation: through a single point infinite number of lines can be passed by Euclid's axiom.

3.

b. on the angle

Explanation: point P lies on the ray QP of the angle therefore P is on the angle

4.

a. (a) 2700,9002700,900

Explanation:2700,9002700,900

5. a. half its diameter Explanation: Radius is from the center of the circle to the circle's edge. The diameter is edge to edge with the line going through the radius. Diameter is twice the length of the radius or 2r where r is the radius of the circle. 6. $1. \rightarrow \rightarrow (b)$ $2. \rightarrow \rightarrow (a)$ $3. \rightarrow \rightarrow (d)$ $4. \rightarrow \rightarrow (c)$ 7. 1. Point 2. length 3. simple 4. two 8. 1. True 2. False. A line segment is a part of a line that has two end points 3. False. A line is a straight path that is endless 4. False Two lines in a plane intersect in a point or parallel. 9. 1. a, c 2. b, d, e 10. 1. 2. 11. 2 12. 3. Not possible. 13. 1. O is the centre of the circle. OA,OB,OC are three radii of 2. OA OB. ,OC the circle. AC is the diameter of the circle. 3. AC 14. 1. U and N 2. U

3. D

4. A, Q, S and B 5. A, P, T and B

- 1. Line segment: A straight line drawn from any point to any other point is called as line segment.
- 2. Line: Line is a straight path of points that goes on forever in two directions. It has infinite length, but no breadth and height.
- 3. Intersecting lines: Interesting lines are lines that pass through the same point.
- 4. Parallel lines: Parallel lines are never cross and always stay the same distance apart.