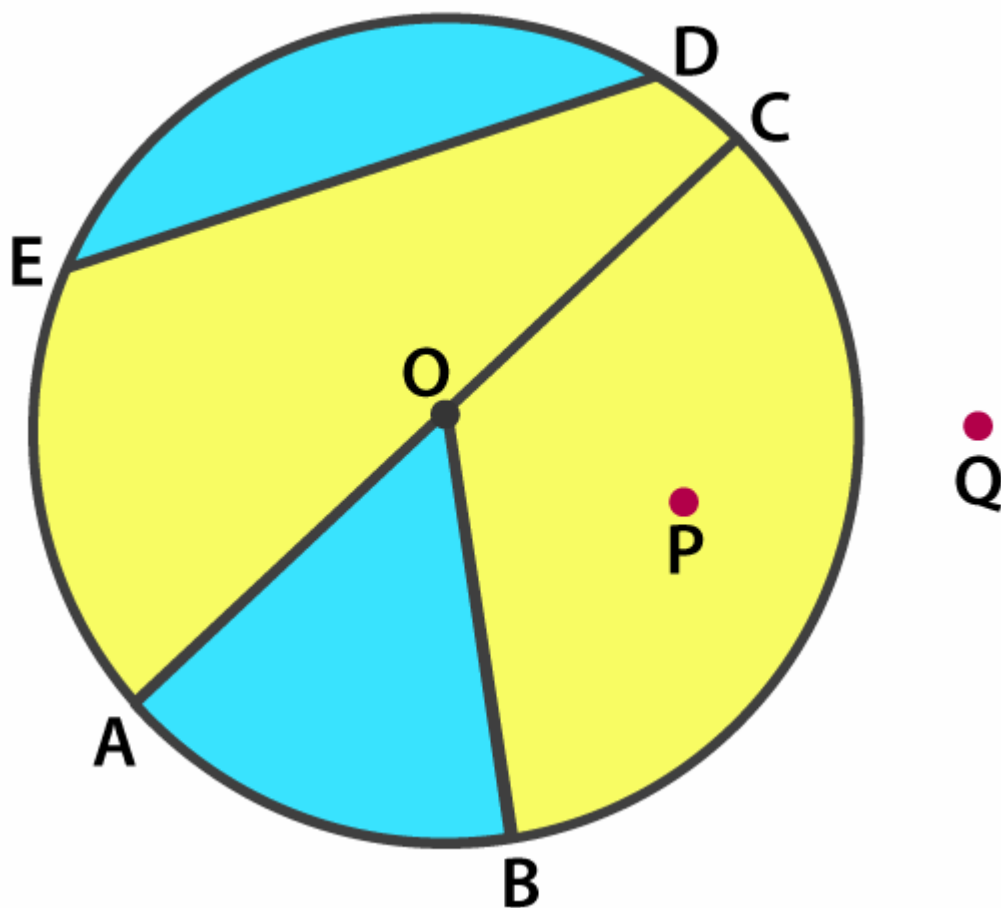


## Access NCERT Solutions for Class 6 Chapter 4: Basic Geometrical Ideas Exercise 4.6

**1. From the figure, identify:**

- (a) the centre of circle
- (b) three radii
- (c) a diameter
- (d) a chord
- (e) two points in the interior
- (f) a point in the exterior
- (g) a sector
- (h) a segment



### Solutions:

- (a) The centre of circle is O  
(b) Three radii are OA,

$\overline{OB}$ ,  
 $\overline{OC}$

(c) A diameter is

$\overline{AC}$

(d) A chord is

$\overline{ED}$

(e) Two points in the interior are O and P

(f) A point in the exterior is Q

(g) A sector is AOB i.e shaded region

(h) A segment is ED i.e shaded region

**2. (a) Is every diameter of a circle also a chord?**

**(b) Is every chord of a circle also a diameter?**

**Solutions:**

(a) Yes every diameter of a circle is also a chord. Diameter is also called as longest chord.

(b) No, every chord is not a diameter.

**3. Draw any circle and mark**

**(a) its centre**

**(b) a radius**

**(c) a diameter**

**(d) a sector**

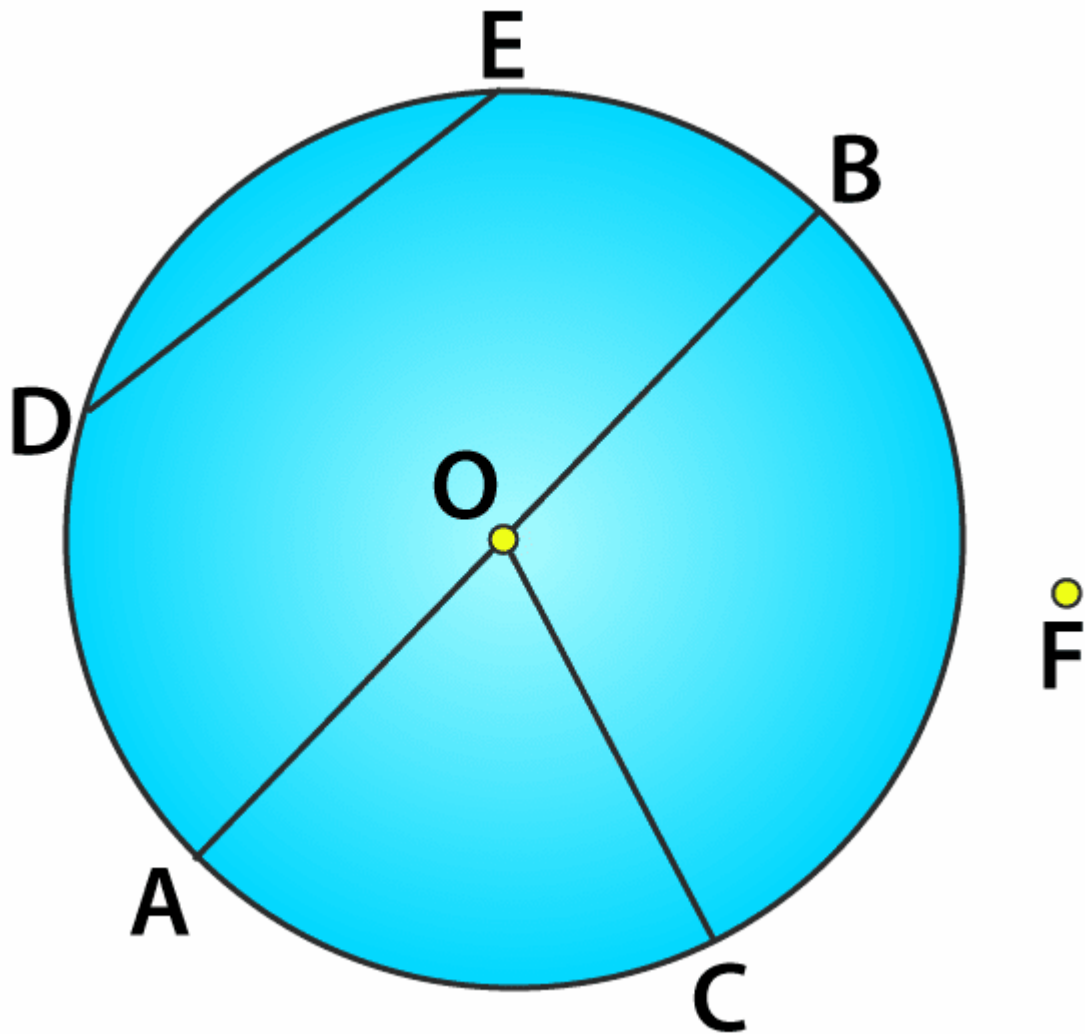
**(e) a segment**

**(f) a point in its interior**

**(g) a point in its exterior**

**(h) an arc**

**Solutions:**



(a) The centre of the circle is O.

(b) The radius is OC

(c) A diameter is  $\overline{AB}$

(d) A sector is AOC

(e) A segment is DE

(f) A point in its interior is O

(g) A point in its exterior is F

(h) An arc is  $\widehat{AC}$

4. Say true or false:

(a) Two diameters of a circle will necessarily intersect.

(b) The centre of a circle is always in its interior.

Solutions:

- (a)** True, two diameters will always intersect each other at the centre of the circle.
- (b)** True, the centre of the circle will always be in its interior.