

# RD Sharma Class 9 Solutions Circles

## RD Sharma Class 9 solutions Chapter 16 Circles Ex 16.1

16. Circles LearnCBSE.in

Solution-1:-

- (i) interior | exterior
- (ii) concentric
- (iii) the exterior
- (iv) arc
- (v) diameter
- (vi) semi-circle
- (vii) Centre
- (viii) three.

Solution-2:-

- (i) T
- (ii) T
- (iii) T
- (iv) F
- (v) T
- (vi) T
- (vii) F
- (viii) T

## RD Sharma Class 9 solutions Chapter 16 Circles Ex 16.2

Solution-01:-

Given that

Radius of circle (OA) = 8cm

Chord (AB) = 12cm

Draw  $OC \perp AB$ .

Wk 1,

The  $\perp$ er from centre to chord  
bisects the chord

$$\therefore AC = BC = \frac{12}{2} = 6\text{cm.}$$

Now in  $\triangle OCA$ , by Pythagoras theorem

$$AC^2 + OC^2 = OA^2$$

$$\Rightarrow 6^2 + OC^2 = 8^2$$

$$\Rightarrow 36 + OC^2 = 64$$

$$\Rightarrow OC^2 = 64 - 36$$

$$\Rightarrow OC^2 = 28$$

$$\Rightarrow OC = \sqrt{28}$$

$$\Rightarrow OC = 5.291\text{cm}$$

