



## MATHS

### BOOKS RD SHARMA MATHS (HINGLISH)

## CIRCLES

### All Questions

1. Explain the following: Circle (ii)

Radius (iii) Centre Diameter (v)

Chord (v) Interior of a circle



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2. Take a point on your notebook and draw circle of radii 4 cm, 3 cm and 6.5 each having the same centre  $O$ .



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3. Draw a circle with centre  $O$  and any radius.

Draw  $AC$  and  $BD$  two perpendicular

diameters of the circle. Join

$AB$ ,  $BC$ ,  $CD$  and  $DA$ .



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4. Draw a circle with centre  $O$  and radius  $6\text{ cm}$

. Mark points  $P$ ,  $Q$ ,  $R$  such that  $P$  lies on the

circle,  $Q$  lies in the interior of the circle, and  $R$

lies in the exterior of the circle. Rewrite each

of the following statements using the correct

symbol ( $=$ ,  $<$ ,  $>$ ):  
(i)  $OQ < 5\text{ cm}$   
(ii)  $OP = 5\text{ cm}$   
(iii)  $OR > 5\text{ cm}$



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5. Take two points  $A$  and  $B$  on the page of your note book. Draw a circle with centre  $A$  which passes through  $B$ .



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6. Draw a semi-circle with centre  $O$  and radius 5 cm. Is the diameter that determines the semi-circle, a part of the semi-circle?



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7. The diameter of a circle is 14 cm, find its radius.



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8. Given a circle with centre  $O$  and radius 2.5 cm, what is the length of the longest chord of the circle



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9. Fill in the blanks: The diameter of a circle is ... times its radius The diameter of a circle is the ... chord of the circle. The diameter of a circle pass through.... A chord of a circle is a line segment with its end points on the ... If we join any two points on a circle by a line segment, we obtain... A radius of a circle is a line segment with one end at .... and the other end at.... All radii of a circle are... The diameters of circle are... The total number of diameters of circle is... Every point on a circle is...from its centre.. A chord of a circle contains

exactly...points of the circle.. A diameter is the longest... Concentric circles are circle having....



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**10.** A circle of radius  $r$  cm has a diameter of length  $r$  cm (b)  $2r$  cm (c)  $4r$  cm (d)  $\frac{r}{2}$  cm



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**11.** A chord of a circle passing through its centre is equal to its radius (b)

diameter          circumference          (d) none of  
these



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**12.** The total number of diameters of a circle is  
1          (b) 2          (c) 4          (d) uncountable  
number



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**13.** By joining any two points on a circle, we obtain its radius (b) diameter (c) chord (d) circumference



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**14.** The longest chord of circle is equal to its radius (b) diameter (c) circumference (d) perimeter



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15. How many circle can be draw to pass through two given points 1 (b) 2 (c) 0 (d) as many as possible



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16. How many circles can be drawn to pass through three non-collinear points 1 (b) 2 (c) 0 (d) as many as possible



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