



MATHS

BOOKS RD SHARMA MATHS (ENGLISH)

CIRCLES

All Questions

1. Explain the following: (i) Circle (ii)
Radius (iii) Centre (iv) Diameter (v)
Chord (vi) 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 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: (i) The diameter of a circle is ... times its radius (ii) The diameter of a circle is the ... chord of the circle. (iii) The diameter of a circle pass through.... (iv) A chord of a circle is a line segment with its end points on the ... (v) If we join any two points on a circle by a line segment, we obtain... (vi) A radius of a circle is a line segment with one end at and the other end at.... (vii) All radii of a circle are... (viii) The diameters of circle are... (ix) The total number of diameters of circle is... (x) Every point on a circle is...from its centre.. (xi) A

chord of a circle contains exactly...points of the circle.. (xii) A diameter is the longest... (xiii)

Concentric circles are circle having....



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10. In each of the following , state if the statement is true (T) or false (F): (i) Every circle has a centre. (ii) The centre of a circle is a point of the circle. (iii) Any two radii of a circle make up diameter. (iv) Every chord of a circle is parallel to some diameter of the circle. (v) A

circle is symmetric about each of its diameter.

(vi) The diameter is twice the radius. (vii) A radius is a chord of the circle. (viii) Concentric circles have the same radii. (ix) The nearer a chord to the centre of a circle, the longer is its length.



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



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12. A chord of a circle passing through its centre is equal to its

- (a) radius (b) diameter (c) circumference
(d) none of these



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13. The total number of diameters of a circle is

- (a) 1 (b) 2 (c) 4 (d)

uncountable number



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



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



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



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



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