



MATHS

AREAS RELATED TO CIRCLES

All Questions

1. What we already learned in previous classes



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2. Perimeter and Area of a circle



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3. Area enclosed by two concentric circles



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4. Some Useful Results



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5. Minor and major sector



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6. Area of a sector



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7. Find the area of a sector whose radius is 14 cm and angle of sector is 45° .



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8. Major and Minor segment



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9. Area of a segment



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10. Find the area of a segment of a circle; given that the angle of the sector is 120° and the radius of the circle is 21 cm.



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11. Circle inside a Circle : PQRS is a diameter of a circle of radius 6 cm. The length PQ;QR and RS are equal. Semi circles are drawn on PQ and QS as diameters as shown in Figure. Find the perimeter and area of shaded Region.



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12. Combination of Circles: The inner and outer diameter of ring 1 of a dartboard are 32 cm and 34 cm respectively and those of ring 2 are 19 cm and 21 cm respectively. What is the total area of these two rings.



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13. Combination of Circle and Triangles : Find the radius of the circle whose area is sum of

the area of two triangles whose sides are '35, 53, 66' and '33, 56, 65'.



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14. Combination of Square and Circle: Four equal circles are described about the four corners of a square so that each touches two of the others as shown in figure. Find the area of shaded Region; each side of square measuring 14 cm.



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15. Combination of polygon and Circle : A round table cover has 6 equal designs as shown in figure. If the radius of the cover is 28cm find the cost of making the designs at the rate of Rs. 0.35 per cm^2



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16. Combination of quadrilateral and circle : In Figure; ABCD is a trapezium with $AB \parallel DC$ and $\angle BCD = 60^\circ$. IF BFEC is a sector of a circle

with centre C and $AB = BC = 7\text{cm}$ and $DE = 4\text{cm}$.
then find the area of shaded region



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17. Combination of quadrilateral and circle : In Figure; ABCD is a trapezium with $AB \parallel DC$; $AB = 18\text{cm}$; $DC = 32\text{cm}$ and the distance between AB and DC is 14 cm. Circles of Equal radii 7 cm with centres A;B;C and D have been drawn. Then; find the area of the shaded region of the figure.



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18. Some important points related to clock



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