Ques No.	Question
1 - 205480	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES In Fig. 12.33, ABC is a quadrant of a circle of radius 14 cm and a semicircle is drawn with BC as diameter. Find the area of the shaded region. Click to watch Free Video Solution of this question on Doubtnut
2 - 205545	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES If the diameter of a semicircular protractor is 14 cm, then find its perimeter. Click to watch Free Video Solution of this question on Doubtnut
3 - 205649	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

The area of an equilateral triangle is $49\sqrt{3}cm^2$

. Taking each angular point as shown in Figure.

Find the area of the triangle not included in the

circle.

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4 - 205762

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

The boundary of the shaded region in the given

figure consists of three semicircular areas, the

smaller ones being equal. If the diameter of the

	larger one is 14 cm, calculate (i) the length of the boundary (ii) the area of the shaded region Click to watch Free Video Solution of this question on Doubtnut
5 - 205826	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** The perimeter (in cm) of a square circumscribing a circle of radius a cm, Click to watch Free Video Solution of this question on Doubtnut
6 - 205873	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** Find the perimeter of the shaded region if ABCD is a square of side 21 cm APB & CPD are semicircles. (Use$\pi = \frac{22}{7}$) Click to watch Free Video Solution of this question on Doubtnut
7 - 205895	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES**

A chord of a circle of radius 12 cm subtends an angle of $120o$ at the centre. Find the area of the corresponding segment of the circle.

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CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

8 - 205919

Three circles each of radius 3.5 cm are drawn in such a way that each of them touches the other two. Find the area enclosed between these three circles (shaded region).

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9 - 207333

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

	Find the area of a quadrant of a circle whose circumference is 22 cm. Click to watch Free Video Solution of this question on Doubtnut
10 - 207393	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** From a rectangular sheet of paper ABCD with AB=40CM and AD=28cm, a semi circular portion with BC as diameter is cut off. Find the area of the remaining paper. $\left(Use\pi = \frac{22}{7}\right)$ Click to watch Free Video Solution of this question on Doubtnut
11 - 207450	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** In Figure 6, O is the centre of the circle with AC = 24 cm, AB = 7 cm and Z BOD = 90°. Find the area of the shaded region. [Use Tt = 3·14] Click to watch Free Video Solution of this question on Doubtnut
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12 - 205391	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** In the given figure, AB and CD are two diameters of circles (with centre O) Perpendicular to each other and OD is the diameter of the smallest circle. If OA = 7cm, Find the area of the shaded region. Click to watch Free Video Solution of this question on Doubtnut
13 - 205400	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** In a circle of radius 21cm, an arc subtends an angle of 60^0 at the centre. Find (i) the length of

	the arc (ii) area of the sector formed by the arc. $\left(Use \pi \frac{22}{7}\right)$ Click to watch Free Video Solution of this question on Doubtnut
14 - 204859	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** . In the following figure, PQRS is square lawn with side PQ = 42 metres. Two circular flower beds are there on the sides PS and QR with centre at O, the intersections of its diagonals. Find the total area of the two flower beds (shaded parts). Click to watch Free Video Solution of this question on Doubtnut
15 - 203675	**CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES** In fig. O is the center of a circle such that diameter AB=13cm and AC= 12 cm. BC is

joined. Find the area of the shaded region.

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16 - 203683

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

Find the area of the shaded region in Fig. 12.20, if radii of the two concentric circles with centre O are 7 cm and 14 cm respectively and $\angle AOC\ = \ 40o$

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17 - 215934

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

Three semicircles each of diameter 3 cm, a circle of diameter 4·5 cm and a semicircle of

radius 4·5 cm are drawn in the given figure.

Find the area of the shaded region.

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CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

18 - 203730

In the given figure, is shown a sector OAP of a circle with centre 0, containing $\angle\theta$. AB is perpendicular to the radius OA and meets OP produced at B. Prove that the perimeter of shaded region is

$$r\left[\tan\theta + \sec\theta + \pi\frac{\theta}{180} - 1\right]$$

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