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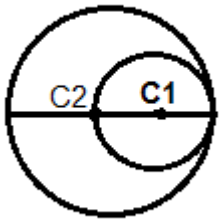
AREA OF CIRCLE
GRADE 8

1. Radius of bigger circle is 9 in. Area of smaller circle is _____square in

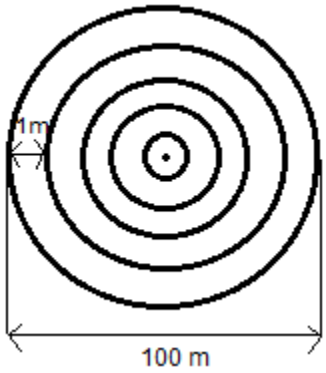


a) 56.72 square in
b) 63.59 square in
c)48 square in
d)60.04 square in

2. Length and breadth of a rectangular field are 29 m and 52.5 m respectively. The area of this rectangular field is same as the area of a circular field. The radius of the circular field is _____m

a) 32 m
b) 22 m
c) 44 m
d)12 m

3. In the figure, the diameter of outermost circle is 100m. There is 1m gap between each circle.



The area of the innermost circle is _____sq. m

a) 4466.42 sq. m
b) 5432.7 sq. m
c) 6644.24 sq. m
d) 3245.5 sq. m

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4. Circumference of a circle is 250∏cm. Its area is _____sq. cm.

a) 50656.2 sq. cm
b) 49062.5 sq. cm
c) 32767 sq. cm
d)12345 sq. cm

5. A circle is inscribed in a square of perimeter 48 cm, so that the circle touches all sides of the square. Area of the circle is _____sq. cm

a) 113 sq. cm
b) 110 sq. cm
c) 123 sq. cm
d) 98 sq. cm

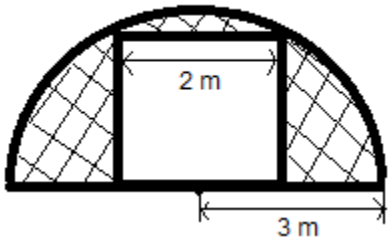
6. Find the number of turns required by a wheel of area 3846.5, to cover a distance of 2198 m._____

a) 7
b) 10
c) 8
d) 9

7. From a circular cardboard of radius 21 cm, Nina cuts off a rectangle of length = 18 cm and breadth = 33 cm. What is the area of remaining cardboard?

a) 680 sq. cm
b) 790.74 sq. cm
c) 540 sq. cm
d) 666.56 sq. cm

8. From this semicircle shaped cloth of radius 3 m, Atlee has cut a square of side 2 m. Area of the shaded portion is _____sq. m



a) 9 sq. m
b) 10.13 sq. m
c) 14.13 sq. m
d) 13.13 sq. m

9. A pizza is cut into four parts. Joe gets one part of it.

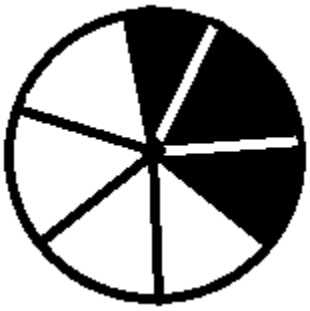
If the diameter of pizza is 16 cm, the area of joe's part of pizza is _____sq. cm

a) 50.24 sq. cm
b) 34.56 sq. cm
c) 47.34 sq. cm
d) 65.11 sq. cm

10. Area of two circles are A1= 113.04 sq. cm and A2= 50.24 sq. cm respectively.
If r1 and r2 are radii of first and second circle respectively, find r1: r2

a) 4:3
b) 3:2
c) 5:7
d) 2:3

11. A sector which is 3/7 th of a circle of radius 7 in, is cut off from the circle. The remaining area is _____sq. in



3/7 parts

a) 65.94 sq. in
b) 54.66 sq. in
c) 87.92 sq. in
d) 44.84 sq. in