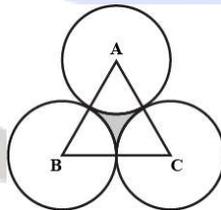
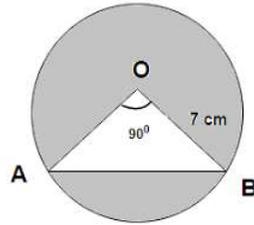


1. If perimeter of circle is equal to that of a square, then the ratio of their areas is
 (a) 22: 7 (b) 14: 11 (c) 7: 22 (d) 11:14
2. Area of a square that can be inscribed in a circle of radius 8.0cm is
 (a) 256 (b) 128 (c) $64\sqrt{2} \text{ cm}^2$ (d) 64 cm^2 .
3. The radius of circle whose circumference is equal to the sum of the circumference of the two circles of diameter 36cm and 20cm is
 (a) 56.0cm (b) 42.0cm (c) 28.0m (d) 16.0cm
4. Area of a sector of a circle with radius r and angle with degree measure θ is :
 (a) $\frac{\theta}{180^\circ} \times \pi r^2$ (b) $\frac{\theta}{360^\circ} \times 2\pi r^2$ (c) $\frac{\theta}{360^\circ} \times \pi r^2$ (d) $\frac{\theta}{360^\circ} \times 3\pi r^2$
5. The length of the minute hand of a clock is 14cm . The area swept out by the minute hand in 1 hour is :
 (a) 016 cm^2 (b) 103 cm^2 (c) 154 cm^2 (d) 308 cm^2
6. The circumference of a circle is 22cm . The area of its quadrant (in cm^2) is :
 (a) $\frac{77}{2}$ (b) $\frac{77}{4}$ (c) $\frac{77}{8}$ (d) $\frac{77}{16}$
7. The outer and inner diameters of a circular ring are 34cm and 32cm respectively, then the area of the ring is:
 (a) 66π (b) 60π (c) 33π (d) 29π
8. In figure, if radius of each circle is unity and A B C is an equilateral triangle, then area of shaded region is :



- (a) $\frac{\sqrt{3} - \pi}{4}$ (b) $\frac{\sqrt{3}}{2} - \frac{\pi}{2}$ (c) $\frac{\sqrt{3} - \pi}{2}$ (d) $\pi - \frac{\sqrt{3}}{4}$
9. In figure, if radius of circle is 7cm and $\angle AOB = 90^\circ$, then area of shaded region is:



- (a) 125cm^2 (b) 152cm^2 (c) 132cm^2 (d) 129.5cm^2
10. Area of the largest triangle that can be inscribed in a semicircle of radius r units is :
- (a) r^2 sq. units (b) $\frac{1}{2}r^2$ sq. units (c) $2r^2$ sq. units (d) $\sqrt{2}r^2$ sq. units