

Ch. Areas Related to Circles

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1. The diameter of a protractor is 14 cm. Its perimeter is
(A) 29cm (B) 22 cm (C) 36 cm (D) 58 cm
2. Circumference of a circle is numerically equal to area. Its diameter = ____ cm.
(A) 2 (B) 4 (C) 8 (D) 3
3. The minute hand of a clock is 21 cm. The distance travelled by tip of minute hand in 15 minutes is = ____ cm.
(A) 33 (B) 22 (C) 132 (D) 66
4. The minute hand of a clock is 21 cm. The distance travelled by tip of hour hand in 1 hour is = ____ cm.
(A) 33 (B) 22 (C) 11 (D) 132
5. Area of region between two concentric circles of radii 28 cm and 35 cm = ____ cm²
(A) 1386 (B) 3850 (C) 1836 (D) 2464
6. If circumference of a circle increases from π to 4π then its area becomes _____
(A) 4 times (B) 8 times. (C) 16 times (D) 2 times
7. Area of the largest triangle that can be inscribed in a semicircle of radius $2r$ cm is
(A) $4r^2$ cm² (B) $2r^2$ cm² (C) r^2 cm² (D) $8r^2$ cm²
8. Perimeter a circle = perimeter of square. Ratio of their areas is
(A) 22:7 (B) 14:11 (C) 7:22 (D) 11:14
9. The circumference of a circle exceeds its diameter by 180 cm. Then its radius is
(A) 32 cm (B) 36 cm (C) 40 cm (D) 42 cm
10. The radii of 2 circles are 7 cm and 14 cm respectively. The radius of a circle whose circumference is equal to circumferences of 2 given circles is
(A) 28 (B) 21 (C) 14 (D) 7

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