AADHARSHILA STUDIES

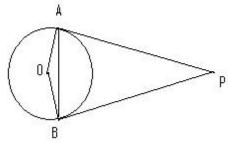
MATHEMATICS-March Test CLASS X



- 8. A wheel has diameter 84 cm. The number of complete revolutions it will take to cover 792 meters is
 - (A) 100
- (B) 200
- (C) 150
- (D) 300
- 9. If the altitude of sun is 60° , then the height of the vertical tower that will cast a shadow of length 30 m is
 - (A) $30\sqrt{3}$
 - (B) 15 m
 - (C) $10\sqrt{3}$
 - (D) $15\sqrt{3}$
- 10. In a single throw of a pair of dice. The probability of getting a doublet is
 - (A) 1
 - (B) $\frac{1}{36}$
 - (C) $\frac{1}{6}$
 - (D) $\frac{5}{6}$

SECTION -B

- 11. By method of completing squares , solve $2x^2 + x 4 = 0$.
- 12. If $\frac{1}{x+2}$, $\frac{1}{x+3}$ and $\frac{1}{x+5}$ are in A.P. find the value of x.
- 13. In figure given below OP is equal to diameter of the circle. Prove that ABP is an equilateral triangle.



- 14. A horse is placed for grazing inside a rectangular field 40 m X 36 m and is tethered to one corner by a rope 14 m long. Over how much area can it graze?
- 15. A rectangular piece of paper is 71 cm long and 19 cm wid. A right circular cylinder is formed by rolling the paper along its length. Find the volume of the cylinder.
- 16. Find the value of 'k' if the point P(0, 2) is equidistant from the points (3, k) and (k, 5).
- 17. If $\left(-\frac{1}{3},0\right)$ is one of the point of trisection of segment joining the points (1 , -2) and (-3 , 4).

Find other point of trisection.

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