

CLASS 10 BOARDS MATHS SOLUTIONS

YEAR 2014

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Ques No.	Question
1	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 The common difference of the AP $\frac{1}{p}, \frac{1-p}{p}, \frac{1-2p}{p}, \dots$ is Watch Free Video Solution on Doubtnut
2	CLASS 10 BOARDS MATHS SOLUTIONS - 2014PA and PB are two tangents drawn from an external point P to a circle with centre C and radius=4cm If $PA \perp PB$ then length of each tangent is \bigcirc Watch Free Video Solution on Doubtnut
3	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 In Fig. 2, a circle with centre O is inscribed in a quadrilateral ABCD such that, it touches the sides BC, AB, AD and CD at points P, Q, R and S respectively. If AB=29 cm, AD-23 cm, $\angle B = 90^{\circ}$ and DS = 5 cm, then the radius of the circle (in cm) Solution on Doubtnut
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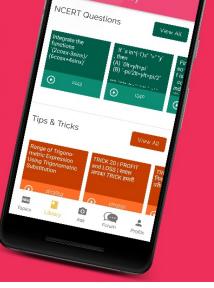




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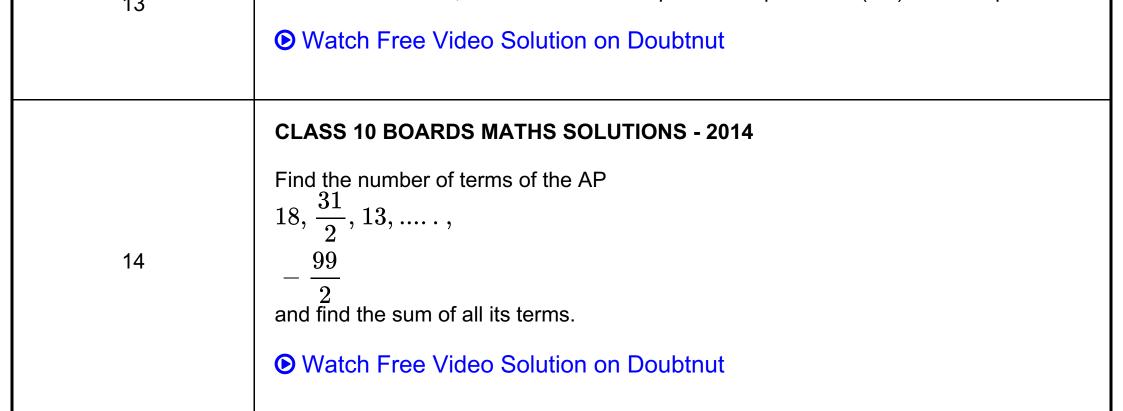


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The angle of depression of a car parked on the road from the top of the 150 m high

4	tower is 30° . Find the distance of the car from the tower Solution on Doubtnut
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5	Find the probability of getting an even number when a die is thrown
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6	A box contains 90 discs, numbered from 1 to 90. If one disc is drawn at random from the box,find the probability that it bears a prime number < 23.
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7	In Fig. 3, the area of triangle ABC (in sq. units) is :
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	CLASS 10 BOARDS MATHS SOLUTIONS - 2014
8	Solve the following quadratic equation for x : $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$ = 0
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	CLASS 10 BOARDS MATHS SOLUTIONS - 2014
9	Find the sum of all three digit natural numbers, which are divisible by 7.
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10	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 In the given figure, a circle inscribed in a triangle ABC, touches the sides AB, BC and AC at points D, E and F respectively. If AB= 12 cm, BC= 8 cm and AC = 10 cm, find the lengths of AD, BE and CF. Watch Free Video Solution on Doubtnut
11	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 Prove that the parallelogram circumscribing a circle is a rhombus. Watch Free Video Solution on Doubtnut
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12	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 A card is drawn at random from a well-shuffled pack of 52 cards. Find the probability that it is neither a ace nor a king. Watch Free Video Solution on Doubtnut
13	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 For what value of k, are the roots of the quadratic equation kx (x-2) +6 = 0 equal ?





18

19

Find the ratio in which the y-axis divides the line segment joining the points (-4, -6) and (10, 12). Also find the coordinates of the point of division.

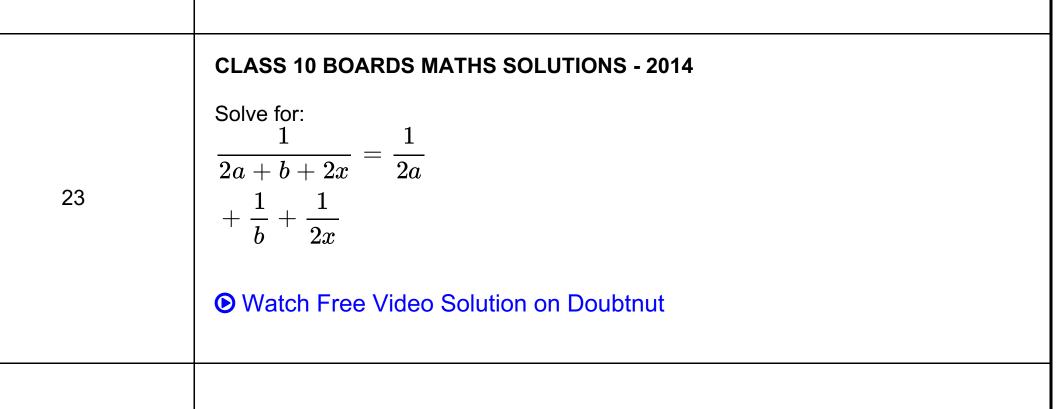
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In the given figure, AB and CD are two diameters of circles (with centre O) Perpendicular to each other and OD is the diameter of the smallest circle. If OA = 7cm, Find the area of the shaded region.

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20	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and the total height of the vessel is 13 cm. Find the inner surface area of the vessel. Watch Free Video Solution on Doubtnut
21	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 A wooden article was made by scooping out a hemisphere from each end of a solid cylinder. If the height of the cylinder is 10 cm, and its base is of radius 3.5 cm, find the total surface area of the article. Watch Free Video Solution on Doubtnut
22	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 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. $\left(Use\pi\frac{22}{7}\right)$ • Watch Free Video Solution on Doubtnut



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24	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 If the sum of first 7 terms of an AP is 49 and that of 17 terms is 289, find the sum of first n terms. Watch Free Video Solution on Doubtnut
25	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 Prove that the tangent at any point of circle is perpendicular to the radius through the point of contact. Watch Free Video Solution on Doubtnut
26	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 l and m are two parallel tangents to a circle with centre O, touching the circle at A and B respectively. Another tangent at C intersects the line l at D and m at E. Prove that $\angle DOE = 90^{\circ}$. • Watch Free Video Solution on Doubtnut
	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60°. If the

27	 If the tower is 60 m high, find the height of the building. Watch Free Video Solution on Doubtnut

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28	 CLASS 10 BOARDS MATHS SOLUTIONS - 2014 A group consists of 12 persons, of which 3 are extremely patient, other 6 are extremely honest and rest are extremely kind. A person from the group is selected at random. Assuming that each person is equally likely to be selected, find the probability of selecting a person who is (i) extremely patient (ii) extremely kind or honest. Which of the above values you prefer Watch Free Video Solution on Doubtnut
29	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 Three vertices of a parallelogram ABCD are A(3, -4), B(-1, -3)andC(-6, 2). Find the coordinates of vertiex D and find the area of parallelogram ABCD. Solution on Doubtnut
	CLASS 10 BOARDS MATHS SOLUTIONS - 2014 water is flowing at the rate of 2.52 km/h through a cylindrical pipe into a cylindrical tank, the radius of where base is 40 cm. If the increases in the lovel of water in the

30	tank, the radius of whose base is 40 cm, If the increase in the level of water in the tank, in half an hour is 3.15 m, find the internal diameter of th pipe.
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31	A bucket open at the top, and made up of a metal sheet is in the form of a frustum of a cone. The depth of the bucket is 24 cm and the diameters of its upper and lower circular ends are 30 cm and 10 cm respectively. Find the cost of metal sheet used in it at the rate of Rs 10 per $100 cm^2$.
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