## CLASS 10 BOARDS MATHS SOLUTIONS

YEAR 2017

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| Ques No. | Question |
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| 1 | CLASS 10 BOARDS MATHS SOLUTIONS - 2017 <br> What is the common difference of an A P. in which $a_{21}-a_{7}=84$ <br> Watch Free Video Solution on Doubtnut |
| 2 | CLASS 10 BOARDS MATHS SOLUTIONS - 2017 <br> The angle of elevation of the top $Q$ of a vertical tower $P Q$ from a point $X$ on the ground is $60^{\circ}$. From a point y 40 m vertically above $X$, the angle of elevation the top $Q$ of tower is $45^{\circ}$. Find the height of the tower PQ and the distance PX .(Use $\sqrt{3}=1.73$ ) <br> Watch Free Video Solution on Doubtnut |
| 3 | CLASS 10 BOARDS MATHS SOLUTIONS - 2017 <br> If a tower 30 m high, casts a shadow $10 \sqrt{3} \mathrm{~m}$ long on the ground, then what is the angle of elevation of the sun? <br> Watch Free Video Solution on Doubtnut |
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

The probability of selecting a rotten apple randomly from a heap of 900 apples is $0 \cdot 18$.
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

Find the value of $p$, for which one root of the quadratic equation $p x^{2}-14 x+8=0$
is 6 times the other.
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

Which term of the sequence
6
$20,19 \frac{1}{4}, 18 \frac{1}{2}, 17 \frac{3}{4}$,
is the first negative term?
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7
Prove that the tangents drawn at the end points of a chord of a circle make equal angles with the chord.
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CLASS 10 BOARDS MATHS SOLUTIONS - 2017
A circle touches all the four sides of a quadrilateral $A B C D$. Prove that $A B+C D=B C+$
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

If the point $P(x, y)$ is equidistant from the points $A(5,1)$ and $B(-1,5)$, prove that $3 x=2 y$.Watch Free Video Solution on Doubtnut


CLASS 10 BOARDS MATHS SOLUTIONS - 2017
A bag contains 15 white and some black balls. If the probability of drawing a black ball from the bag is thrice that of drawing a white ball, find the number of black balls in the bag.
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

In what ratio does the point $\left(\frac{24}{11}, y\right)$ divide the line segment joining the points $\mathrm{P}(2$,
2) and $Q(3,7)$ ? Also find the value of $y$.
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Three semicircles each of diameter 3 cm , a circle of diameter 4.5 cm and a semicircle of radius 4.5 cm are drawn in the given figure. Find the area of the shaded region.

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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

Water in a canal, 5.4 m wide and 1.8 m deep, is flowing with a speed of $25 \mathrm{~km} / \mathrm{hour}$.
How much area can it irrigate in 40 minutes, if 10 cm of standing water is required for irrigation?
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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

The slant height of a frustum of a cone is 4 cm and the perimeters (circumference) of its circular ends are 18 cm and 6 cm . Find the curved surface area of the frustum.

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CLASS 10 BOARDS MATHS SOLUTIONS - 2017
Solve for x :
$\frac{1}{x+1}+\frac{3}{5 x+1}$
$=\frac{5}{x+4}, x \neq$
$-1,-\frac{1}{5},-4$
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CLASS 10 BOARDS MATHS SOLUTIONS - 2017
Two taps running together can fill a tank in $3\left(\frac{1}{13}\right)$ hours. If one tap takes 3 hours
more than the other to fill the tank, then how much time will each tap take to fill the tank ?

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## CLASS 10 BOARDS MATHS SOLUTIONS - 2017

If the ratio of the sum of first $n$ terms of two AP's is $(7 n+1):(4 n+27)$, then find the
ratio of their mth terms.
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| 23 | CLASS 10 BOARDS MATHS SOLUTIONS -2017 <br> If two different dice are rolled together, the probability of getting an even number of both dice is <br> Watch Free Video Solution on Doubtnut |
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