Q.1 If <i>x</i> a	and y are real numbers such that $x^2 + (x - 2y - 1)^2 = -4y(x + y)$, then t	the value $x - 2y$ is
Ans 🧹	1.1	
×	(2. 2	
×	31	
×		
$\mathbf{\hat{\mathbf{n}}}$. +. 0	
		Question Type : MCQ Question ID : 48916814965 Option 1 ID : 48916836597 Option 2 ID : 48916836599 Option 3 ID : 48916836598 Option 4 ID : 48916836596 Status : Not Answered Chosen Option :
Q.2 Let n	<i>n</i> be the least positive integer such that 168 is a factor of 1134^n . If <i>m</i> is the least positive integer such that 168 is a factor of 160^m , then $m + n$ equals	tive integer such that
Ans 🗙	1. 24	
	2 1 2	
\sim		
~	4. 15	
		Question Type : MCQ Question ID : 48916814886 Option 1 ID : 48916836346 Option 2 ID : 48916836345 Option 3 ID : 48916836344 Option 4 ID : 48916836343 Status : Not Answered Chosen Option :
Q.3	$\sqrt{5x+9} + \sqrt{5x-9} = 3(2+\sqrt{2})$ then $\sqrt{10x+9}$	9 is equal to
Ans 🗙	1.3√31	
×	∑ 2. 2√7	
v	≥ 3. 3√7	
×	4.4.75	
		Question Type : MCQ Question ID : 48916814734 Option 1 ID : 48916835801 Option 2 ID : 48916835802 Option 3 ID : 48916835799 Option 4 ID : 48916835800 Status : Not Answered Chosen Option :



Q.4 If	x and y are positive real numbers such that $log_x(x^2 + 12) = 4$ and 3 l	$\log_y x = 1$, then $x + y$ equals
Ans	√ 1.10	
	× 2.68	
	× 3 20	
	× 11	
	▲ 4. 11	
		Question Type : MCQ
		Question ID : 48916814895
		Option 1 ID : 48916836379
		Option 2 ID : 48916836380 Option 3 ID : 48916836382
		Option 4 ID : 48916836381
		Status : Not Answered
		Chosen Option :
	ADALAH 27 0000 201-100 001 70 0000	
Q.5	The number of integer solutions of equation 2	$x (x^2+1) = 5x^2$ is
	Case Sensitivity: No	
	Answer Type: Equal	
	Possible Answer: 3	
Giver Answer	n	
-1130001		
		Question Type : SA
		Question ID : 48916816328
		Status : Not Answered
Q.6	The equation $x^3 + (2r + 1)x^2 + (4r - 1)x + 2 = 0$ has -2 as one of the root then the minimum possible non-negative integer value of r is	s. If the other two roots are real,
	Case Sensitivity: No	
	Answer Type: Equal	
	Possible Answer: 2	
Giver	n	
Answer		
		Question Type : SA
		Question ID : 48916815399
		Status : Not Answered
Q.7	Let α and β be the two distinct roots of the equation $2x^2 - 6x + k = 0$, su distinct roots of the equation $x^2 + px + p = 0$. Then, the value of $8(k - p)$	ch that $(\alpha + \beta)$ and $\alpha\beta$ are the) is
	Case Sensitivity: No	
	Answer Type: Equal	
	Possible Answer: 6	
Giver Answer	n ::	
		Question ID : 48916815391
		Status : Not Answered



Q.8	In an examination, the average marks of 4 girls and 6 boys is 24. Ea same marks while each of the boys has the same marks. If the mar double the marks of any boy, but not less than the marks of any boy possible distinct integer values of the total marks of 2 girls and 6 b	ach of the girls has the rks of any girl is at most y, then the number of oys is
Ans	✓ 1.21	
	X 2. 19	
	✗ 3. 20	
	X 4. 22	
		Question Type : MCQ
		Question ID : 48916815762
		Option 1 ID : 48916838965
		Option 2 ID : 48916838968
		Option 3 ID : 48916838967
		Option 4 ID : 48916838966
		Status : Not Answered
		Chasen Ontion (
Q.9	The salaries of three friends Sita, Gita and Mita are initially in the ra	atio 5 : 6 : 7, respectively.
Q.9	The salaries of three friends Sita, Gita and Mita are initially in the raise of three friends Sita, Gita and Mita are initially in the raise of the first year, they get salary hikes of 20%, 25% and 20%, respectively, and the sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git	atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the rail in the first year, they get salary hikes of 20%, 25% and 20%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git 1. 26%	atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the rail in the first year, they get salary hikes of 20%, 25% and 20%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git 1.26%	atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the rail in the first year, they get salary hikes of 20%, 25% and 20%, respectively. Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git 1.26% 2.30% 3.28%	atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ra In the first year, they get salary hikes of 20%, 25% and 20%, respect Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ra In the first year, they get salary hikes of 20%, 25% and 20%, respect Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	Chosen Option : atio 5 : 6 : 7, respectively. tively. In the second year, e salary of Gita becomes ta in the second year is Ouestion Type : MCO
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ra In the first year, they get salary hikes of 20%, 25% and 20%, respect Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	Question Type : MCQ Question Type : 48916815853
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ra In the first year, they get salary hikes of 20%, 25% and 20%, respect Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	Question Type : MCQ Question ID : 48916815853 Option 1 ID : 48916839301
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the rails in the first year, they get salary hikes of 20%, 25% and 20%, respectively. Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	Question Type : MCQ Question Type : MCQ Question ID : 48916815853 Option 1 ID : 48916839301 Option 2 ID : 48916839303
Q.9 Ans	 The salaries of three friends Sita, Gita and Mita are initially in the rails in the first year, they get salary hikes of 20%, 25% and 20%, respectively. Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1.26% ✓ 2.30% ✓ 3.28% ✓ 4.25% 	Question Type : MCQ Question ID : 48916815853 Option 1 ID : 48916839301 Option 2 ID : 48916839304
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ra In the first year, they get salary hikes of 20%, 25% and 20%, respect Sita and Mita get salary hikes of 40% and 25%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1. 26% ✓ 2. 30% ✓ 3. 28% ✓ 4. 25%	Question Type : MCQ Question ID : 48916815853 Option I ID : 48916839303 Option 3 ID : 48916839304 Option 4 ID : 48916839302
Q.9 Ans	The salaries of three friends Sita, Gita and Mita are initially in the ratio of the first year, they get salary hikes of 20%, 25% and 20%, respectively, and the equal to the mean salary of the three friends. The salary hike of Git ✓ 1.26% ✓ 2.30% ✓ 3.28% ✓ 4.25%	Question Type : MCQ Question Type : MCQ Question ID : 48916815853 Option 1 ID : 48916839301 Option 2 ID : 48916839303 Option 3 ID : 48916839304 Option 4 ID : 48916839302 Status : Answered







i	and B are still sold at an equal price and a profit of 10% is m made on object A will be nearest to	nade on object B, then the profit
ıs	X 1.42%	
	X 2. 49%	
	X 3. 45%	
	4 . 47%	
		Ontion 1 ID : 48916836684
		Option 2 ID : 48916836687
		Option 3 ID : 48916836685
		Option 4 ID : 48916836686
		Status : Answered
		Chosen Option : 4
ו ו ns	mixture P and replaced with same amount of cocoa powder ratio of coffee and cocoa in the mixture Q is 16 : 9, then the that in mixture Q is 1.4:9	to form a new mixture Q. If the ratio of cocoa in mixture P to
	X 2.1:3	
	✓ 3.5:9	
	X 4 1·2	
		Question Type : MCQ
		Question ID : 48916815789
		Option 1 ID : 48916839075
		Option 2 ID : 48916839076
		Option 3 ID : 489168390/3
		Option 4 ID : 48916839074 Status : Not Answered
		Chosen Option :
Q.14	Anil invests Rs. 22000 for 6 years in a certain scheme with 4% interest per annum, compounded half-yearly. Sunil invests in the same scheme for 5 years, and then reinvests the entire amount received at the end of 5 years for one year at 10% simple interest. If the amounts received by both at the end of 6 years are same, then the initial investment made by Sunil, in rupees, is	
	Case Sensitivity: No	
	Answer Type: Equal	
	Answer Type: Equal Possible Answer: 20808	
Giv	Answer Type: Equal Possible Answer: 20808 ren er :	
Giv	Answer Type: Equal Possible Answer: 20808 ren er :	
Giv	Answer Type: Equal Possible Answer: 20808 ren er :	Question Type : SA
Giv nswe	Answer Type: Equal Possible Answer: 20808 ren er :	Question Type : SA Question ID : 48916815419



	The amount of job that Amal, Sunil and Kamal can individually do in a day, are in harmonic progression. Kamal takes twice as much time as Amal to do the same amount of job. If Amal and Sunil work for 4 days and 9 days, respectively, Kamal needs to work		
	for 16 days to finish the remaining job. Then the number of days Sunil will take to finish		
	Case Sensitivity: No		
	Answer Type: Faual		
	Possible Answer: 27		
Give	n		
Answer	:		
		Question Type : SA	
		Question ID : 48916816343	
		Status : Not Alisweleu	
Q.16	Arvind travels from town A to town B, and Surbhi from town B to tow the same time along the same route. After meeting each other, Arv reach town B while Surbhi takes 24 hours to reach town A. If Arving of 54 km/h, then the distance, in km, between town A and town B is Case Sensitivity: No	wn A, both starting at ind takes 6 hours to I travelled at a speed	
	Answer Type: Equal		
	Possible Answer: 972		
Give	n 972		
Answer	:		
		Question Type : SA	
		Question ID : 48916816346	
		Status : Answered	
Q.17 A A	quadrilateral ABCD is inscribed in a circle such that AB : CD = 2 : 1 a C and BD intersect at the point E, then AE : CE equals	nd BC : AD = 5 : 4. If	
Ans	X 1.2:1		
	X 2.1∶2		
	3.8:5		
	× 4.5:0		
	▲ 4.5.8		
		Question Type : MCQ Question ID : 48916813912	
		Question Type : MCQ Question ID : 48916813912 Option 1 ID : 48916833222	
		Question Type : MCQ Question ID : 48916813912 Option 1 ID : 48916833222 Option 2 ID : 48916833223	
		Question Type : MCQ Question ID : 48916813912 Option 1 ID : 48916833222 Option 2 ID : 48916833223 Option 3 ID : 48916833220	
		Question Type : MCQ Question ID : 48916813912 Option 1 ID : 48916833222 Option 2 ID : 48916833223 Option 3 ID : 48916833220 Option 4 ID : 48916833221	
		Question Type : MCQ Question ID : 48916813912 Option 1 ID : 48916833222 Option 2 ID : 48916833223 Option 3 ID : 48916833220 Option 4 ID : 48916833221 Status : Not Answered	



to C with the angle between the two tangents equal to 60°. Then, the point at	which L touches the line $x = 6$ is
Ans 🗙 1. (6,6)	
\times 2 (6, 4)	
$\sim 2.(0, 1)$	
∧ 3. (0, 8)	
✓ 4. (6,3)	
	Question Type : MCQ Question ID : 48916814891 Option 1 ID : 48916836366 Option 2 ID : 48916836365 Option 3 ID : 48916836364 Option 4 ID : 48916836363 Status : Not Answered Chosen Option :
Q.19 In a right-angled triangle ΔABC, the altitude AB is 5 cm, and Q are two points on BC such that the areas of ΔABP, ΔABQ a progression. If the area of ΔABC is 1.5 times the area of ΔAI Case Sensitivity: No	the base BC is 12 cm. P and nd ΔABC are in arithmetic BP, the length of PQ, in cm, is
Answer Type: Equal	
Possible Answer: 2	
Given	
Inswer:	
Answer :	Question Type : SA
Answer :	Question Type : SA Question ID : 48916816339
inswer :	Question Type : SA Question ID : 48916816339 Status : Not Answered
0.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y} + \sqrt{z}}$ is the arith then the relationship which will always hold true, is	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{z}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$,
20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is Ans χ 1. x, y and z are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$,
.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is Ans \thickapprox 1. x, y and z are in arithmetic progression \bigstar 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progre	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$,
1.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arithmetic then the relationship which will always hold true, is Ans \thickapprox 1. x, y and z are in arithmetic progression \bigstar 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression \bigstar 3. y, x and z are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion
1.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arititient the relationship which will always hold true, is Ans \thickapprox 1. x, y and z are in arithmetic progression \gtrless 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression \gtrless 3. y, x and z are in arithmetic progression \gtrless 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression $\end{Bmatrix}$ 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{z}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion
20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is 3. x, y and z are in arithmetic progression 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion Question Type : MCQ
20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arithmetic then the relationship which will always hold true, is 3. x, y and z are in arithmetic progression 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion Question Type : MCQ Question ID : 48916815757
.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is .1 x, y and z are in arithmetic progression 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression 3. y, x and z are in arithmetic progression 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion Question Type : MCQ Question ID : 48916815757 Option 1 ID : 48916838945
.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is uns \swarrow 1. x, y and z are in arithmetic progression \thickapprox 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression \bigstar 3. y, x and z are in arithmetic progression \bigstar 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion ession Question Type : MCQ Question ID : 48916815757 Option 1 ID : 48916838945 Option 2 ID : 48916838948 Option 2 ID : 48916838948
2.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arithmetic then the relationship which will always hold true, is Ans \propto 1. x, y and z are in arithmetic progression \approx 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression \approx 3. y, x and z are in arithmetic progression \approx 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answeredhmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$,ssionessionQuestion Type : MCQ Question ID : 48916815757 Option 1 ID : 48916838945 Option 2 ID : 48916838948 Option 3 ID : 48916838947 Option 3 ID : 48916838946
2.20 For some positive and distinct real numbers x, y and z , if $\frac{1}{\sqrt{y}+\sqrt{z}}$ is the arith then the relationship which will always hold true, is Ans \bigstar 1. x, y and z are in arithmetic progression \bigstar 2. \sqrt{x}, \sqrt{y} and \sqrt{z} are in arithmetic progression \bigstar 3. y, x and z are in arithmetic progression \bigstar 4. \sqrt{x}, \sqrt{z} and \sqrt{y} are in arithmetic progression	Question Type : SA Question ID : 48916816339 Status : Not Answered hmetic mean of $\frac{1}{\sqrt{x}+\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$, ssion Question Type : MCQ Question ID : 48916815757 Option 1 ID : 48916838945 Option 2 ID : 48916838948 Option 3 ID : 48916838947 Option 4 ID : 48916838946 Status : Not Answered



Q.21 ·	The number of all natural numbers up to 1000 with non-rep	peating digits is
Ans	✔ 1. 738	
	X 2. 648	
	X 3. 504	
	X 4. 585	
		Option 1 ID : 48916840886
		Option 2 ID : 48916840887
		Option 3 ID : 48916840888
		Option 4 ID : 48916840889
		Status : Not Answered
		Chosen Option :
0.22	A lab experiment measures the number of organisms at 8 am even	ny day. Starting with 2 organisms on the
Q.22	first day, the number of organisms on any day is equal to 3 more t day. If the number of organisms on the <i>n</i> th day exceeds one millio	han twice the number on the previous n , then the lowest possible value of n is
Case Sensitivity: No Answer Type: Equal		
	Possible Answer: 19	
Giv	en	
Answe	er :	
		Question Type : SA
		Question ID : 48916816351

