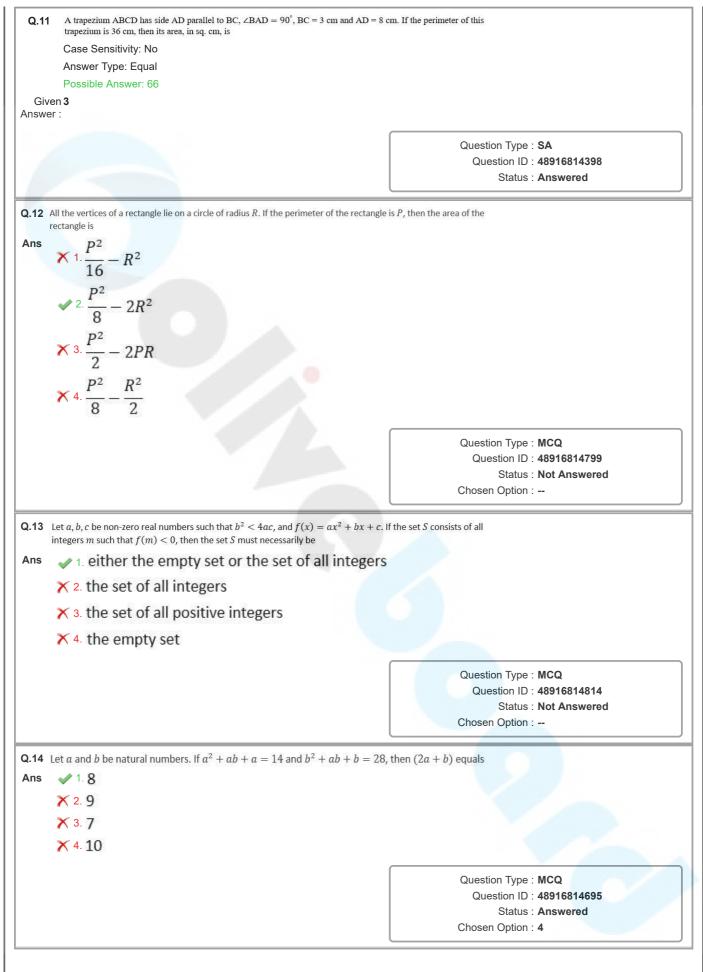
CAT 2022 Slot 1 QA

Q.1	Pinky is standing in a queue at a ticket counter. Suppor persons standing ahead of Pinky to the number of per- the queue is 3 : 5. If the total number of persons in the the maximum possible number of persons standing ah	sons standing behind her in queue is less than 300, then
	Case Sensitivity: No	
	Answer Type: Equal	
	Possible Answer: 111	
	en 112	
nswe	r:	
		Question Type : SA
		Question ID : 48916815401
		Status : Answered
	is 🗙 1. 2	
-113	× 2. −1 × 3.0	
	✗ 3. 0	
0110	✗ 3. 0	Question Type : MCQ
0110	✗ 3. 0	Question Type : MCQ Question ID : 48916814764
	✗ 3. 0	

	emains an odd integer. The minimum possible value of n is		
· · · •	✓ 1. 5		
	× 2.1		
	X 3. 3		
	X 4. 4		
		Question Turps	MCO
		Question Type Question ID	: 48916814773
			Answered
		Chosen Option	3
Q.4	Let A be the largest positive integer that divides all the numbers of the form $3^k + 4^k$ positive integer that divides all the numbers of the form $4^k + 3(4^k) + 4^{k+2}$, where k is $(A + B)$ equals	5^k , and B be the largest any positive integer. Then	
	Case Sensitivity: No		
	Answer Type: Equal		
	Possible Answer: 82		
Give nswer			
		Question Type	
		Question ID	48916815393
Q.5	In a village, the ratio of number of males to females is 5 : 4. The r literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, t number of females in the village is Case Sensitivity: No Answer Type: Equal	Question ID Status atio of number of of illiterate males to	
	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to	48916815393
Give	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to nen the total	: 48916815393 : Not Answered
Give	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to hen the total Question Type	: 48916815393 : Not Answered
Give	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to nen the total Question Type Question ID	: 48916815393 : Not Answered : SA : 48916814391
Give	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to nen the total Question Type Question ID	: 48916815393 : Not Answered
Give nswer Q.6 Lo (1 Ans	literate males to literate females is 2 : 3. The ratio of the number illiterate females is 4 : 3. If 3600 males in the village are literate, to number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400	Question ID Status atio of number of of illiterate males to nen the total Question Type Question ID Status	: 48916815393 : Not Answered : SA : 48916814391
Give nswer Q.6 Lo (1 Ans	literate males to literate females is 2 : 3. The ratio of the number of illiterate females is 4 : 3. If 3600 males in the village are literate, the number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400 Let ABCD be a parallelogram such that the coordinates of its three of 1, 1), (3, 4) and (-2, 8), respectively. Then, the coordinates of the vero 1. (-4, 5) X 2. (-3, 4) X 3. (0, 11)	Question ID Status atio of number of of illiterate males to hen the total Question Type Question ID Status rertices A, B, C are rtex D are	: 48916815393 : Not Answered : SA : 48916814391 : Answered
Give nswer 2.6 Lo (1	literate males to literate females is 2 : 3. The ratio of the number of illiterate females is 4 : 3. If 3600 males in the village are literate, the number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400 Let ABCD be a parallelogram such that the coordinates of its three of 1, 1), (3, 4) and (-2, 8), respectively. Then, the coordinates of the vero 1. (-4, 5) X 2. (-3, 4) X 3. (0, 11)	Question ID Status atio of number of of illiterate males to nen the total Question Type Question ID Status rertices A, B, C are rtex D are Question Type	: 48916815393 : Not Answered : SA : 48916814391 : Answered
Give nswer Q.6 Lo (1 Ans	literate males to literate females is 2 : 3. The ratio of the number of illiterate females is 4 : 3. If 3600 males in the village are literate, the number of females in the village is Case Sensitivity: No Answer Type: Equal Possible Answer: 43200 en 5400 The second secon	Question ID Status atio of number of of illiterate males to hen the total Question Type Question ID Status rertices A, B, C are rtex D are Question Type Question ID	: 48916815393 : Not Answered : SA : 48916814391 : Answered

	Alex invested his savings in two parts. The simple inte 15% per annum for 4 years is the same as the simple i part at 12% per annum for 3 years. Then, the percentage first part is	interest earned on the second
ns	🗙 1. 60%	
	X 2. 62.5%	
	✓ 3. 37.5%	
	X 4. 40%	
		Question Type : MCQ
		Question ID : 48916814720
		Status : Answered Chosen Option : 1
Q.8	The average weight of students in a class increases by students join the class. If the average weight of the ne average weight of the original students, then the ratio students to the number of new students is	w students is 3 kg more than the
hs	X 1.1:2	
	✓ 2.4:1	
	🗙 3. 1 : 4	
	X 4.3:1	
	X 4.3:1	
	X 4. 3 : 1	Question Type : MCQ
	X 4.3:1	Question ID : 48916813756
	× 4.3:1	Question ID : 48916813756 Status : Answered
Q.9	A mixture contains lemon juice and sugar syrup in equities created by adding this mixture and sugar syrup in the syrup in	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture
	A mixture contains lemon juice and sugar syrup in equ	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture
	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of
	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture
	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of Question Type : MCQ
	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of Question Type : MCQ Question ID : 48916814783
Q.1	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 4.1:4 O Amal buys 110 kg of syrup and 120 kg of juice, syrup juice, per kg. He sells 10 kg of syrup at 10% profit a Mixing the remaining juice and syrup, Amal sells the makes an overall profit of 64%. Then, Amal's cost pris Case Sensitivity: No Answer Type: Equal Possible Answer: 160 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of Question Type : MCQ Question ID : 48916814783 Status : Answered Chosen Option : 4
Ans Q.10	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 4.1:4 O Amal buys 110 kg of syrup and 120 kg of juice, syrup juice, per kg. He sells 10 kg of syrup at 10% profit a Mixing the remaining juice and syrup, Amal sells the makes an overall profit of 64%. Then, Amal's cost pris Case Sensitivity: No Answer Type: Equal Possible Answer: 160 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of Question Type : MCQ Question ID : 48916814783 Status : Answered Chosen Option : 4
Q.10	A mixture contains lemon juice and sugar syrup in equis created by adding this mixture and sugar syrup in the lemon juice and sugar syrup in the new mixture is 1.1:7 2.1:6 3.1:5 4.1:4 O Amal buys 110 kg of syrup and 120 kg of juice, syrup juice, per kg. He sells 10 kg of syrup at 10% profit a Mixing the remaining juice and syrup, Amal sells the makes an overall profit of 64%. Then, Amal's cost pris Case Sensitivity: No Answer Type: Equal Possible Answer: 160 	Question ID : 48916813756 Status : Answered Chosen Option : 2 ual proportion. If a new mixture he ratio 1 : 3, then the ratio of Question Type : MCQ Question ID : 48916814783 Status : Answered Chosen Option : 4 up being 20% less costly than and 20 kg of juice at 20% profit. te mixture at ₹ 308.32 per kg and price for syrup, in rupees per kg,



	In a class of 100 students, 73 like coffee, 80 like tea and possible that some students do not like any of these th between the maximum and minimum possible number three drinks is	of students who like all the
Ans	X 1. 48	
	X 2.52	
	X 3. 53	
	✓ 4. 47	
		Question Type : MCQ
		Question ID : 48916814755
		Status : Answered Chosen Option : 4
.16	Trains A and B start traveling at the same time towards speeds from stations X and Y, respectively. Train A rea while train B takes 9 minutes to reach station X after m time taken, in minutes, by train B to travel from station	nches station Y in 10 minutes neeting train A. Then the total
ns	X 1.12	
	X 2.6	
	✓ 3. 15	
	X 4. 10	
		Question Type : MCQ
		Question ID : 48916814786
		Question ID : 48916814786 Status : Answered
2.17	Ankita buys 4 kg cashews, 14 kg peanuts and 6 kg cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to ma kg of the mixture at this marked price and the rema	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three ske a profit of ₹1752. She sells 4
	cashews is the same as that of 30 kg peanuts or 9 kg a	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three ake a profit of ₹1752. She sells 4 inining at a 20% discount on the the amount, in rupees, that she
	cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to ma kg of the mixture at this marked price and the rema marked price, thus making a total profit of ₹744. Then had spent in buying almonds is	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three ake a profit of ₹1752. She sells 4 tining at a 20% discount on the the amount, in rupees, that she Question Type : MCQ
	cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to ma kg of the mixture at this marked price and the rema marked price, thus making a total profit of ₹744. Then had spent in buying almonds is	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three ake a profit of ₹1752. She sells 4 inining at a 20% discount on the the amount, in rupees, that she
	cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to ma kg of the mixture at this marked price and the rema marked price, thus making a total profit of ₹744. Then had spent in buying almonds is	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three take a profit of ₹1752. She sells 4 ining at a 20% discount on the the amount, in rupees, that she Question Type : MCQ Question ID : 48916814715
Q.1	 cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to make of the mixture at this marked price and the remain marked price, thus making a total profit of ₹744. Then had spent in buying almonds is 1. 2520 2. 1176 3. 1680 4. 1440 8 For natural numbers x, y, and z, if xy + yz = 19 and yz + xz = 51, Case Sensitivity: No Answer Type: Equal Possible Answer: 34 ven	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three take a profit of ₹1752. She sells 4 ining at a 20% discount on the the amount, in rupees, that she Question Type : MCQ Question ID : 48916814715 Status : Answered Chosen Option : 3
Q.1	 cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to make of the mixture at this marked price and the remain marked price, thus making a total profit of ₹744. Then had spent in buying almonds is 1. 2520 2. 1176 3. 1680 4. 1440 8 For natural numbers x, y, and z, if xy + yz = 19 and yz + xz = 51, Case Sensitivity: No Answer Type: Equal Possible Answer: 34 ven	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three take a profit of ₹1752. She sells 4 ining at a 20% discount on the the amount, in rupees, that she Question Type : MCQ Question ID : 48916814715 Status : Answered Chosen Option : 3
Q.1	 cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to make of the mixture at this marked price and the remain marked price, thus making a total profit of ₹744. Then had spent in buying almonds is 1. 2520 2. 1176 3. 1680 4. 1440 8 For natural numbers x, y, and z, if xy + yz = 19 and yz + xz = 51, Case Sensitivity: No Answer Type: Equal Possible Answer: 34 ven	Question ID : 48916814786 Status : Answered Chosen Option : 4 almonds when the cost of 7 kg almonds. She mixes all the three ake a profit of ₹1752. She sells 4 ining at a 20% discount on the the amount, in rupees, that she Question Type : MCQ Question ID : 48916814715 Status : Answered Chosen Option : 3
Q.1	 cashews is the same as that of 30 kg peanuts or 9 kg a nuts and marks a price for the mixture in order to make of the mixture at this marked price and the remain marked price, thus making a total profit of ₹744. Then had spent in buying almonds is 1. 2520 2. 1176 3. 1680 4. 1440 8 For natural numbers x, y, and z, if xy + yz = 19 and yz + xz = 51, Case Sensitivity: No Answer Type: Equal Possible Answer: 34 ven	Question ID : 48916814786 Status : Answered Chosen Option : 4

		. Then the maximum value of $f(x)$
	Let $0 \le a \le x \le 100$ and $f(x) = x - a + x - 100 + x - a - 50)$ becomes 100 when <i>a</i> is equal to	
	× 1.0	
	× 2. 25	
	✗ 3. 100	
	✓ 4. 50	
		Question Type : MCQ Question ID : 48916814704
		Status : Not Answered
		Chosen Option :
0.00		N
Q.20	For any real number x , let $[x]$ be the largest integer less than or equa	I to x. If $\sum_{n=1}^{\infty} \left[\frac{1}{5} + \frac{n}{25} \right] = 25$ then N is
	Case Sensitivity: No	n=1
	Answer Type: Equal	
	Possible Answer: 44	
Give	en	
Answer		
		Question Type : SA
		Question Type : SA Question ID : 48916815397
n^{\prime}	For any natural number n , suppose the sum of the first n terms of an arith t^{th} term of the progression is divisible by 9, then the smallest possible value 1	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible value 1. 8 2. 7 3. 4 	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible valu 1. 8 2. 7 	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible value 1. 8 2. 7 3. 4 	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible value 1. 8 2. 7 3. 4 	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the re of n is Question Type : MCQ Question ID : 48916814735
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible value 1. 8 2. 7 3. 4 	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the e of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered
n' Ans	 tth term of the progression is divisible by 9, then the smallest possible value 1. 8 2. 7 3. 4 	Question ID : 48916815397 Status : Not Answered metic progression is $(n + 2n^2)$. If the re of n is Question Type : MCQ Question ID : 48916814735
n' Ans	 th term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n' Ans	t th term of the progression is divisible by 9, then the smallest possible valu ★ 1. 8 ◆ 2. 7 ★ 3. 4 ★ 4. 9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets ar	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n' Ans	 th term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets ar Case Sensitivity: No	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n' Ans	t th term of the progression is divisible by 9, then the smallest possible valu ★ 1. 8 ◆ 2. 7 ★ 3. 4 ★ 4. 9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets ar	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n ¹ Ans Q.22 Give	 the term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets are Case Sensitivity: No Answer Type: Equal Possible Answer: 84 en 3	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n ¹ Ans Q.22 Give	 the term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets are Case Sensitivity: No Answer Type: Equal Possible Answer: 84 en 3	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :
n' Ans	 the term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets are Case Sensitivity: No Answer Type: Equal Possible Answer: 84 en 3	Question ID: 48916815397 Status: Not Answered metic progression is (n + 2n ²). If the re of n is Question Type: MCQ Question ID: 48916814735 Status: Not Answered Chosen Option: s among 4 children such odd number of balloons, is
n ¹ Ans Q.22 Give	 the term of the progression is divisible by 9, then the smallest possible values 1.8 2.7 3.4 4.9 The number of ways of distributing 20 identical balloon that each child gets some balloons but no child gets are Case Sensitivity: No Answer Type: Equal Possible Answer: 84 en 3	Question ID : 48916815397 Status : Not Answered metic progression is (n + 2n ²). If the re of n is Question Type : MCQ Question ID : 48916814735 Status : Not Answered Chosen Option :