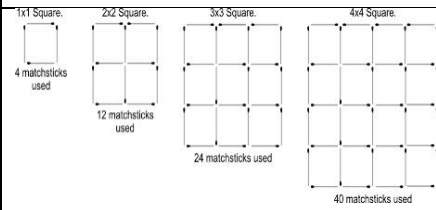


Q.N O.	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Corr ect Ans wer (Opt ion - A,B, C,D)	
1	2_11 Mathematics 5320	Number system	The product of 100 real numbers is -100. AT LEAST how many of these 100 real numbers must be positive?		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		99	2	1		none
2	2_11 Mathematics 4470	Number system	For which of these values of y will 2y be an irrational number?		D	
		Answer Options				
		Option A	Option B	Option C		Option D
		$y = \sqrt{49}$	$y = -2/13$	$y = 22/7$		$y = \sqrt{8}$
3	2_11 Mathematics 5327	Number system	I have two leaking taps in my kitchen. The first tap drips once every 8 seconds and the second one drips once every 12 seconds. When any one tap drips alone, I call it a 'SINGLE DRIP' and when both drip simultaneously, I call it a 'DOUBLE DRIP'. The number of 'SINGLE DRIPS' in an interval of 100 seconds following a 'DOUBLE DRIP' will be		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		3	7	12		18

4	2_11 Mathematics 5329	Number System	Shyam's father is 6 times as old as Shyam. Shyam's mother is 25 years old. The average age of this family of three is 20 years. How old is Shyam?		D	
		Answer Options				
		Option A	Option B	Option C		Option D
		15 years	10 years	7 years	5 years	
5	2_11 Mathematics 4475	Number System	The average of the 1 st five natural numbers is		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		2.25	2.5	3	3.5	
6	2_11 Mathematics 5332	Number System	What will be the remainder when 4^{6788} is divided by 5?		A	
		Answer Options				
		Option A	Option B	Option C		Option D
		1	2	3	4	
7	2_11 Mathematics 5333	Number System	See the following matchstick patterns. How many matchsticks would be required to make a similar 10×10 square pattern?		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		100	200	220	500	
8	2_11 Mathematics	Number System	The pattern of numbers below forms a special sequence called the Fibonacci sequence. Study the first 7 numbers given below and understand the pattern		D	
		Answer Options				
		Option A	Option B	Option C		Option D
		100	200	220	500	



	4488		1,1,2,3,5,8,13			
			What could the next two numbers of the sequence be?			
		Answer Options				
		Option A	Option B	Option C	Option D	
		18 and 23	18 and 31	21 and 26	21 and 34	
9	2_11 Mathematics 4490	Number System	Mr. Malkani owns a hotel with exactly 100 rooms. The first room is numbered as 1, the second one as 2 and so on. However, being a superstitious man, he has taken care that no room in his hotel bears the number 13 or any of its multiples. What is the room number of the 100 th room in the hotel?			D
		Answer Options				
		Option A	Option B	Option C	Option D	
		87	100	107	108	
10	2_11 Mathematics 4491	Number System	If $x + 5$ is a multiple of 3, which of the following MUST be a multiple of 9?			C
		Answer Options				
		Option A	Option B	Option C	Option D	
		$x^2 + 25$	$3x + 5$	$(x + 5)(x + 5)$	$(x + 5)(x + 9)$	
11	2_11 Mathematics		A certain whole number is multiplied by 90 and then divided by 2. Which of the following could be the result?			D

	5296	Answer Options					
		Option A	Option B	Option C	Option D		
		33228	52320	61635	26550		
12	2_11 Mathematics 4492	Number System	Adil's bathroom has two taps next to each other and a bucket is kept under them. Tap 1 alone (at full flow) can fill HALF the bucket in 2 minutes and Tap 2 alone (at full flow) can fill HALF the bucket in 3 minutes.			A	
			If both taps are turned on (to full flow), in how much time will the bucket get filled completely?				
		Answer Options					
		Option A	Option B	Option C	Option D		
		2 minutes 24 seconds	2 minutes 30 seconds	5 minutes	10 minutes		

Q . N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option- A,B,C,D)
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13	2_11 Mathematics 4465	NUMBER SYSTEM	2. 31×10^{-3} can be written as			C	
		Answer Options					
		Option A	Option B	Option C	Option D		
		-69.3	-2310	0.00231	$\frac{1}{2.31} \times 10^3$		
14	2_11 Mathematics 5298	NUMBER SYSTEM	$\frac{3 \times 10^3}{6 \times 10^4}$ is			C	
		Answer Options					
		Option A	Option B	Option C	Option D		
		$0.5 \times (10)^{3/4}$	0.5×10	$(2 \times 10)^{-1}$	$2 \times (10)^{-1}$		

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	5_29 Mathematics 11411	Number System	A number N is increased by 100%. The resulting number is then decreased by 100%. The final result will be		D
Answer Options					
		Option A	Option B	Option C	Option D
		50N	N	N^2	0