



September Sprint for CAT 2025

Class 1

Number System



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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths





A number $N = 0.\text{abcabcabc}\dots$ where a, b, c are non-zero digits. By which of the following numbers should N be multiplied to get an integer product?

- A. 900
- B. 990
- C. 999
- D. 1000



Four consecutive prime numbers are arranged in ascending order. The product of the first three numbers is 20677 and that of the last three numbers is 33263. Find the sum of the first and the last number.



60 children are standing in a circle. Child 1 has a ring. The ring is passed clockwise in the following manner: child 1 passes on to child 2, child 2 passes on to child 4, child 4 passes on to child 7, child 7 passes on to child 11, and so on. After how many such transfers will the ring be in the hands of child 1 again?

- A. 14
- B. 15
- C. 16
- D. 17



A number $a!$ ends in 28 zeros while a number $b!$ ends in 31 zeros, where a and b are natural numbers. What is the maximum possible difference between a and b ?

- A. 9
- B. 14
- C. 15
- D. 19



If ABC and DEF are both 3-digit numbers such that A, B, C, D, E, and F are distinct and are non-zero digits such that $ABC + DEF = 1111$, then what is the value of $A+B+C+D+E+F$?



Find the last digit of $1^1 + 2^2 + 3^3 + 4^4 + \dots + 2025^{2025}$



Find the last two digits of $1! + 2! + 3! + 4! + \dots + 555!$

- A. 07
- B. 13
- C. 43
- D. 51



Find the number of trailing zeroes at the end of $\frac{50!}{10!}$

- A. 10
- B. 12
- C. 5
- D. 6



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If the number $4925x86y4$ is divisible by 11, what is the least value that $x - y$ can assume?

- A. -5
- B. -2
- C. 3
- D. 6



The number of positive integers n in the range $2 < n < 50$, such that $(n - 1)!$ is not divisible by n is



What is the highest power of 20 that can divide 1000!

- A. 52
- B. 249
- C. 330
- D. 447



A student writes a two-digit number, reverses its digits, and adds it to the original number. He gets the result as X . Which of the following cannot be the sum of digits of X ?

- A. 6
- B. 8
- C. 9
- D. 10



The number $37^{75} + 47^{75}$ is not divisible by which of these numbers?

- A. 2
- B. 3
- C. 5
- D. 7



A number $1 + 11^{39}$ is divisible by x . Which of the following numbers is also divisible by x ?

- A. $1 + 11^{13}$
- B. $1 + 11^{78}$
- C. $1 + 11^{117}$
- D. $1 + 11^{156}$



If N is the largest multiple of 55 that can be formed by using all the digits 0, 1, 2, 3, 4, 5, and 6 just once, find the sum of the last three digits of N .

- A. 10
- B. 6
- C. 7
- D. 9



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