



September Sprint for CAT 2025

Class 3

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 child was asked to add the first few natural numbers so long his patience permitted. As he stopped, he gave the sum as 719. When the teacher declared the result wrong the child discovered he had added one number in the sequence twice. What was the number that he added twice?



One page is torn from a book whose pages are numbered in the usual manner starting from the first page as 1. The sum of the numbers on the remaining pages is 3451. The torn page contains which of the following numbers?

- A. 37, 38
- B. 43, 44
- C. 59, 60
- D. 75, 76



When 242 is divided by a certain divisor the remainder obtained is 8. When 698 is divided by the same divisor the remainder obtained is 9. When the sum of 242 and 698 is divided by the divisor, the remainder obtained is 4. What is the divisor?



What is the remainder when $16! - 15! - 14!$ is divided by 17?

- A. 6
- B. 7
- C. 8
- D. 9



What is the remainder when 7^{50} is divided by 90?

- A. 50
- B. 49
- C. 7
- D. 1



Find the smallest number that leaves a remainder of 2 when divided by 5, 3 when divided by 7, and 10 when divided by 11.



Find the remainder when 2^{29} is divided by 60.

- A. 2
- B. 12
- C. 22
- D. 32



If a number leaves a remainder of 4 when divided by 9 and a remainder of 7 when divided by 11, what is the remainder when it is divided by 99?

- A. 40
- B. 36
- C. 18
- D. 24



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How many numbers between 3000 and 5000 have exactly 3 factors?

- A. 3
- B. 5
- C. 8
- D. 16



How many numbers less than 100 have exactly 12 factors?



4 logs of wood of lengths $5\frac{1}{4}$ m, $1\frac{13}{15}$ m, $3\frac{1}{2}$ m and $4\frac{9}{10}$ m, are cut into small pieces, all of which have equal lengths. Each piece of wood is as long as possible. How many pieces of wood are obtained?

- A. 133
- B. 145
- C. 151
- D. 163



There are two integers 34041 and 32506, when divided by a three-digit integer n , leave the same remainder. What is the value of n ?

- A. 298
- B. 307
- C. 409
- D. 161



The sum of two non-coprime numbers added to their HCF gives us 77. How many such pairs are possible?

- A. 4
- B. 3
- C. 2
- D. 1



A room 17.39 m long and 11.84 m broad is to be paved with square tiles of the same lengths which are integral multiples of 1 cm. What is the minimum of tiles required?



A patient needs to take three medications: Drug A every 8 hours, Drug B every 12 hours, and Drug C every 18 hours. All medications are first taken together at 6:00 AM on Monday. If each medication is taken 100 times, on how many days will he take all medications together at 6:00 AM?

- A. 10
- B. 11
- C. 12
- D. 13



What is the sum of the digits of the least number which when divided by 5, 6, and 8 leaves the remainder 3 in each case but is exactly divisible by 11?

- A. 6
- B. 9
- C. 10
- D. 12



The numbers from 1 to 500 are written in the base 7 system. How many of the numbers will have a non-zero unit's digit?



In a certain base n , $(BC8)_n - (77C)_n = (449)_n$. Find the value of n .

- A. 14
- B. 13
- C. 12
- D. 11



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