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NUMBER SYSTEM

CSAT (GS PAPER II)

PREVIOUS YEAR QUESTIONS

with

ANSWER KEY 2011-2024





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How many numbers are there between 100

and 300 which either begin with or end with

Previous Year Questions

5.

Numbers

- 2?A gardener has 1000 plants. He wants to 1. plant them in such a way that the number (a) 110 of rows and the number of columns remains (b) 111 the same. What is the minimum number of (c) 112 plants that he needs more for this purpose? (d) None of the above [CSAT 2016] (a) 14 (b) 24 How many numbers are there between 99 6 (c) 32 (d) 34 [CSAT 2013] and 1000 such that the digit 8 occupies the units place? A person is standing on the first step from 2.(a) 64 (b) 80 the bottom of a ladder. If he has to climbs (c) 90 (d) 104 **[CSAT 2017]** 4 more steps to reach exactly the middle The age of Mr. X last year was the square of 7. step, how many steps does the ladder have? a number and it would be the cube of a (a) 8 (b) 9 number next year. What is the least number (c) 10 (d) 11 [CSAT 2016] of years he must wait for his age to become There are some nectar-filled flowers on a tree the cube of a number again? 3. and some bees are hovering on it. If one bee (a) 42 (b) 38 lands on each, flower, one bee will be left out. (c) 25 (d) 16 [CSAT 2017] If two bees land on each flower, one flower If *X* is between -3 and -1, and *Y* is between 8. will be left out. The number of flowers and -1 and 1, then $X^2 - Y^2$ is in between which of bees respectively are the following? (a) 2 and 4 (b) 3 and 2 (a) -9 and 1 (b) -9 and -1 (c) 3 and 4 (d) 4 and 3 (c) 0 and 8 (d) 0 and 9 [CSAT 2016] [CSAT 2018] In aid of charity, every student in a class 4. 9. X and Y are natural numbers other than 1. contributes as many rupees as the number and Y is greater than X. Which of the of students in that class. With the additional following represents the largest number? contribution of Rs. 2 by one student only, the total collection is Rs. 443. Then how (a) XYmany students are there in the class? (b) *X*/*Y* (a) 12 (c) Y/X(b) 21 (d) (X + Y)/XY(c) 43 [CSAT 2018] (d) 45 [CSAT 2016]
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10. If x - y = 8, then which of the following must be true?

- 1. Both *x* and *y* must be positive for any value of *x* and *y*.
- 2. If x is positive, y must be negative for any value of *x* and *y*.
- 3. If *x* is negative, *y* must be positive for any value of *x* and *y*.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

[CSAT 2018]

- 11. The number of times the digit 5 will appear while writing the integers from 1 to 1000 is (b) 271
 - (a) 269
 - (c) 300 (d) 302 [CSAT 2019]
- 12. In a conference, out of a total 100 participants, 70 are Indians. If 60 of the total participants are vegetarian, then which of the following statements is/are correct?
 - 1. At least 30 Indian participants are vegetarian.
 - 2. At least 10 Indian participants are nonvegetarian.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

[CSAT 2019]

- 13. In a school, 60% students play cricket. A student who does not play cricket, plays football. Every football player has got a twowheeler. Which of the following conclusions cannot be drawn from the above data?
 - 1. 60% of the students do not have twowheelers.
 - 2. No cricketer has a two-wheeler.

SA MODULES

3. Cricket players do not play football. Select the correct answer using the code given below:

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- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only

(d) 1, 2 and 3

[CSAT 2019]

If x is greater than or equal to 25 and y is less than or equal to 40, then which one of the following is always correct?

- (a) x is greater than y
- (b) (y x) is greater than 15
- (c) (y x) is less than or equal to 15
- (d) (x + y) is greater than or equal to 65

[CSAT 2019]

- If the numerator and denominator of a 15.proper fraction are increased by the same positive quantity which is greater than zero, the resulting fraction is
 - (a) always less than the original fraction
 - (b) always greater than the original fraction
 - (c) always equal to the original fraction
 - (d) such that nothing can be claimed definitely

[CSAT 2019]

- 16. Consider two statements S1 and S2 followed by a question:
 - S1: p and q both are prime numbers.

S2: p + q is an odd integer.

Question: Is *pq* an odd integer ?

Which one of the following is correct?

- (a) S1 alone is sufficient to answer the question
- (b) S2 alone is sufficient to answer the question
- (c) Both S1 and S2 taken together are not sufficient to answer the question
- (d) Both S1 and S2 are necessary to answer the question [CSAT 2019]

Quantitative Aptitude | Number System | Probability **Ratio & Proportion** Percentage P&C

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17.	Number 136 is added to $5E$ obtained is 7A3, where A and It is given that 7A3 is exactl The only possible value of B (a) 2 (b) 5 (c) 7 (d) 8	37 and the sum l <i>B</i> are integers. y divisible by 3. is [CSAT 2019]	21. Let p , q , r a that p - 2016 = q Which one on atural num (a) p	nd <i>s</i> be natural numbers such + $2017 = r - 2018 = s + 2019$ of the following is the largest ober?
18.	Let XYZ be a 3-digit number, Z) is not a multiple of 3. The ZXY) is not divisible by (a) 3 (b) 9 (c) 37 (d) (X	where (X + Y + n (XYZ + YZX + (XYZ + YZX + (CSAT 2020]	(b) q (c) r (d) s 22. Two Stateme followed by a S1:	[CSAT 2020] ents S1 and S2 are given below a Question: There are not more than two
19.	Consider all 3-digit num repetition of digits) obtained a zero digits, which are multiply their sum. Which of the fa- correct? 1. <i>S</i> is always divisible by 7 2. <i>S</i> is always divisible by 9 Select the correct answer usin below: (a) 1 only (b) 2 of (c) Both 1 and 2 (d) New	nber (without using three non- les of 3. Let <i>S</i> be ollowing is/are 74. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	S2: Question: Which one respect of th Question ? (a) Both S1 the Ques S2 alone	figures on any page of a 51- page book. There is at least one figure on every page. Are there more than 100 figures in that book ? of the following is correct in he above Statements and the and S2 are sufficient to answer stion, but neither S1 alone nor e is sufficient to answer the
20.	Let <i>A</i> , <i>B</i> and <i>C</i> represent d digits. Suppose <i>x</i> is the sum 3-digit numbers formed b without repetition. Consider the following states 1. The 4-digit least value of 2. The 3-digit greatest value Which of the above statement (a) 1 only (b) 2 d (c) Both 1 and 2 (d) No	istinct non-zero n of all possible by <i>A</i> , <i>B</i> and <i>C</i> ments : f <i>x</i> is 1332. te of <i>x</i> is 888. ts is/are correct ? conly either 1 nor 2 [CSAT 2022]	 (b) S1 alone Question (c) S1 and S answer t (d) S2 alone Question 	 is sufficient to answer the 2 together are not sufficient to he Question. is sufficient to answer the [CSAT 2020]
	CSAT Test Se		CK SECTIONAL	TEST TOPIC-WISE TEST

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- 23. Two Statements S1 and S2 are given below followed by a Question:
 - S1: *n* is a prime number.
 - S2: *n* leaves a remainder of 1 when divided by 4.
 - Question: If n is a unique natural number between 10 and 20, then what is n?

Which one of the following is correct in respect of the above Statements and the Question?

- (a) S1 alone is sufficient to answer the Question.
- (b) S2 alone is sufficient to answer the Question.
- (c) S1 and S2 together are sufficient to answer the Question, but neither S1 alone nor S2 alone is sufficient to answer the Question.
- (d) S1 and S2 together are not sufficient to answer the Question.

[CSAT 2020]

- 24. Two Statements S1 and S2 are given below with regard to two numbers followed by a Question:
 - S1: Their product is 21.

S2: Their sum is 10.

Question: What are the two numbers?

Which one of the following is correct in respect of the above Statements and the Question?

- (a) S1 alone is sufficient to answer the Question.
- (b) S2 alone is sufficient to answer the Question.
- (c) S1 and S2 together are sufficient to answer the Question, but neither S1 alone nor S2 alone is sufficient to answer the Question.
- (d) S1 and S2 together are not sufficient to answer the Question.

BOOK

[CSAT 2020]

- 25. How many integers are there between 1 and 100 which have 4 as a digit but are not divisible by 4?
 - (a) 5
 (b) 11
 (c) 12
 (d) 13 [CSAT 2020]
- 26. The recurring decimal representation 1.272727... is equivalent to



- 27. For what value of *n*, the sum of digits in the number $(10^n + 1)$ is 2?
 - (a) For n = 0 only
 - (b) For any whole number n
 - (c) For any positive integer n only
 - (d) For any real number *n* [CSAT 2020]
- 28. How many pairs of natural numbers are there such that the difference of whose squares is 63?

29. Which one of the following will have minimum change in its value if 5 is added to both numerator and the denominator of the

fractions
$$\frac{2}{3}$$
, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{5}{6}$?
(a) $\frac{2}{3}$ (b) $\frac{3}{4}$
(c) $\frac{4}{5}$ (d) $\frac{5}{6}$

[CSAT 2020]

Topic-wise PYQs segregation

Theory & Practice

Additional questions from other Competitive Exams.

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- 30. Integers are listed from 700 to 1000. In how many integers is the sum of the digits 10?
 - (a) 6
 - (b) 7
 - (c) 8
 - (d) 9 [CSAT 2021]
- 31. Half of the villagers of a certain village have their own houses. One-fifth of the villagers cultivate paddy. One-third of the villagers are literate. Four-fifth of the villagers are under 25 years of age. Which one of the following statements is certainly correct?
 - (a) All the villagers who have their own houses are literate.
 - (b) Some villagers under 25 years of age are literate.
 - (c) Only half of the villagers who cultivate paddy are literate.
 - (d) No villager under 25 years of age has his own house.

[CSAT 2021]

32. Consider the following addition problem: 3P + 4P + PP + PP = RQ2; where P, Q and R are different digits.

What is the arithmetic mean of all such possible sums?

- (a) 102
- (b) 120
- (c) 202
- (d) 220

[CSAT 2021]

33. Consider the following multiplication problem:

 $(PQ) \times 3 = RQQ$, where P, Q and R are different digits and $R \neq 0$.

What is the value of $(P + R) \div Q$?

- (a) 1
- (b) 2
- (c) 5
- (d) Cannot be determined due to insufficient da

- 34. Consider the following statements:
 - 1. The sum of 5 consecutive integers can be 100.
 - 2.The product of three consecutive natural numbers can be equal to their sum.

Which of the above statements is/are correct?

- (a) 1 only (b) 2 only
- (c) Both 1 and 2(d) Neither 1 nor 2

[CSAT 2021]

- 35. The sum of three consecutive integers is equal to their product. How many such possibilities are there?
 - (a) Only one
 - (b) Only two
 - (c) Only three
 - (d) No such possibility is there [CSAT 2022]

(b) 15723

(d) 15873

36. When a certain number is multiplied by 7, the product entirely comprises ones only (1111...). What is the smallest such number?

(a) 15713

(c) 15783

[CSAT 2021]

37. An Identity Card has the number ABCDEFG, not necessarily in that order, where each letter represents a distinct digit (1, 2, 4, 5, 7, 8, 9 only). The number is divisible by 9. After deleting the first digit from the right, the resulting number is divisible by 6. After deleting two digits from the right of original number, the resulting number is divisible by 5. After deleting three digits from the right of original number, the resulting number is divisible by 4. After deleting four digits from the right of original number, the resulting number is divisible by 3. After deleting five digits from the right of original number, the resulting number is divisible by 2. Which of the following is a possible value for the sum of the middle three digits of the number?

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(b) 9 (d) 12 [CSAT 2022]
(b) 9

38. Consider the Question and two Statements given below:

Question: Is x an integer ?

Statement-1: $\frac{x}{3}$ is not an integer.

Statement-2: 3x is an integer.

Which one of the following is correct in respect of the Question and the Statements ?

- (a) Statement-1 alone is sufficient to answer the Question.
- (b) Statement-2 alone is sufficient to answer the Question.
- (c) Both Statement-1 and Statement-2 are sufficient to answer the Question.
- (d) Both Statement-1 and Statement-2 are not sufficient to answer the Question.[CSAT 2022]

39. A person X wants to distribute some pens among 6 children A, B, C, D, E and F. Suppose A gets twice the number of pens received by B, three times that of C, four times that of D, five times that of E and six times that of F. What is the minimum number of pens X should buy so that the number of pens each one gets is an even number ?

- (a) 147 (b) 150
- (c) 294 (d) 300 [CSAT 2022]
- 40. Consider the following statements in respect of two natural number *p* and *q* such that *p* is a prime number and *q* is a composite number:
 - 1. $p \times q$ can be an odd number.
 - 2. $\frac{p}{q}$ can be a prime number.
 - 3. p + q can be a prime number.

Which of the above statements are correct?

- (a) 1 and 2 only (b) 2 and 3 only
- (c) 1 and 3 only (d) 1, 2 and 3
 - [CSAT 2022]

- 41. If *ABC* and *DEF* are both 3-digit numbers such that *A*, *B*, *C*, *D*, *E* and *F* are distinct digits that ABC + DEF = 1111, then what is the value of A + B + C + D + E + F?
 - (a) 28 (b) 29
 - (c) 30 (d) 31 [CSAT 2023]
- 42. D is a 3-digit number such that the ratio of the number to the sum of its digits is least. What is the difference between the digit at the hundred's place and the digit at the unit's place of D?
 - (a) 0
 - (b) 7
 - (c) 8
 - (d) 9

[CSAT 2023]

- 43. Three of the five positive integers p, q, r, s, t are even and two of them are odd (not necessarily in order). Consider the following:
 - 1. p + q + r s t is definitely even.
 - 2. 2p + q + 2r 2s + t is definitely odd.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

[CSAT 2023]

14. Consider the following in respect of prime number p and composite number c.

- 1. $\frac{p+c}{p-c}$ can be even.
- 2. 2p + c can be odd.
- 3. pc can be odd.

Which of the statements given above are correct?

- (a) 1 and 2 only
 - (b) 2 and 3 only (d) 1, 2 and 3
- (c) 1 and 3 only
- [CSAT 2023]

SAT MODULES

Quantitative AptitudeNumber SystemProbabilityRatio & ProportionPercentageP & C

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- 45. A 3-digit number *ABC*, on multiplication with *D* gives 37*DD* where *A*, *B*, *C* and *D* are different non-zero digits. What is the value of A + B + C?
 - (a) 18
 - (b) 16
 - (c) 15
 - (d) Can't be determined due to insufficient data

[CSAT 2023]

- 46. If p, q, r and s are distinct single digit positive numbers, then what is the greatest value of (p + q) (r + s)?
 - (a) 230
 - (b) 225
 - (c) 224
 - (d) 221 [CSAT 2023]
- 47. Let *pp*, *qq* and *rr* be 2-digit numbers, where p < q < r. If pp + qq + rr = tt0, where *tt*0 is a 3-digit number ending with zero, consider the following statements :
 - 1. The number of possible values of p is 5.
 - 2. The number of possible values of q is 6. Which of the above statements is/are correct ?
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

[CSAT 2023]

- 48. What is the sum of all 4-digit numbers less than 2000 formed by the digits 1, 2, 3 and 4, where none of the digits is repeated ?
 - (a) 7998
 - (b) 8028
 - (c) 8878
 - (d) 9238

[CSAT 2023]

- 49. Question: Is p greater than q? Statement-1: $p \times q$ is greater than zero. Statement-2: p^2 is greater than q^2 . Which one of the following is correct in respect of the above Question and the Statements?
 - (a) The Question can be answered by using
 - one of the Statements alone, but cannot be answered using the other Statement alone.
 - (b) The Question can be answered by using either Statement alone.
 - (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
 - (d) The Question cannot be answered even by using both the Statements together.

[CSAT 2023]

- 50. Question : Is (p + q r) greater than (p q + r), where p, q and r are integers ?
 - Statement-1: (p-q) is positive.
 - Statement-2: (p r) is negative.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together. [CSAT 2023]

SAT Test Series

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(d) 1, 2 and 3

51. Consider a 3-digit number.

Question: What is the number ?

Statement-1: The sum of the digits of the number is equal to the product of the digits.

Statement-2: The number is divisible by the sum of the digits of the number.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together. [CSAT 2023]
- 52. *AB* and *CD* are 2-digit numbers. Multiplying *AB* with *CD* results in a 3-digit number *DEF*. Adding *DEF* to another 3-digit number *GHI* results in 975. Further *A*, *B*, *C*, *D*, *E*, *F*, *G*, *H*, *I* are distinct digits. If E = 0, F = 8, then what is A + B + C equal to ?
 - (a) 6
 - (c) 8

[CSAT 2023]

53. Consider the following statements in respect of the sum S = x + y + z, where x, y and z are distinct prime numbers each less than 10 :

(b) 7

(d) 9

- 1. The unit digit of S can be 0.
- 2. The unit digit of S can be 9.
- 3. The unit digit of S can be 5.

Which of the statements given above are correct $? \label{eq:correct}$

(d) 1, 2 and 3

BOOK

- (a) 1 and 2 only (b) 2 and 3 only
- (c) 1 and 3 only

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[CSAT 2024]

- 54. Let *p*, *q*, *r* and *s* be distinct positive integers. Let *p*, *q* be odd and *r*, *s* be even. Consider the following statements :
 - 1. $(p r)^2(qs)$ is even.
 - 2. $(q-s)q^2s$ is even.
 - 3. $(q + r)^2(p + s)$ is odd.

Which of the statements given above are correct ?

- (a) 1 and 2 only (b) 2 and 3 only
- (c) 1 and 3 only

[CSAT 2024]

[CSAT 2024]

- 55. What is the number of fives used in numbering a 260-page book ?
 - (a) 55
 - (b) 56
 - (c) 57
 - (d) 60
- 56. If the sum of the two-digit numbers *AB* and *CD* is the three-digit number 1*CE*, where the letters *A*, *B*, *C*, *D*, *E* denote distinct digits, then what is the value of *A* ?
 - (a) 9
 - (b) 8
 - (c) 7
 - (d) Can't be determined due to insufficient data

[CSAT 2024]

- 57. Three numbers x, y, z are selected from the set of the first seven natural numbers such t h a t x > 2y > 3z. How many such distinct triplets
 - (x, y, z) are possible ?
 - (a) One triplet
 - (b) Two triplets
 - (c) Three triplets
 - (d) Four triplets

[CSAT 2024]

Topic-wise PYQs segregation

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58. The total cost of 4 oranges, 6 mangoes and 8 apples is equal to twice the total cost of 1 orange, 2 mangoes and 5 apples.

Consider the following statements :

- 1. The total cost of 3 oranges, 5 mangoes and 9 apples is equal to the total cost of 4 oranges, 6 mangoes and 8 apples.
- 2. The total cost of one orange and one mango is equal to the cost of one apple.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 only
- (c) Both 1 and 2

(d) Neither 1 nor 2

- [CSAT 2024]
- 59. Let p and q be positive integers satisfying p < q and p + q = k. What is the smallest value of *k* that does not determine *p* and *q* uniquely? (b) 4
 - (a) 3
 - (c) 5

[CSAT 2024]

- 60. A Question is given followed by two Statements 1 and 2. Consider the Question and the Statements.
 - Question: What are the values of m and *n*, where *m* and *n* are natural numbers?

(d) 6

Statement-1: m + n > mn and m > n.

Statement-2: The product of m and n is 24. Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

[CSAT 2024]



- 61. A Question is given followed by two Statements 1 and 2. Consider the Question and the Statements.
 - Question: What are the unique values of x and y, where x, y are distinct natural numbers?

Statement-1: x/y is odd.

Statement-2: xy = 12.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

[CSAT 2024]

62. A Question is given followed by two Statements 1 and 2. Consider the Question and the Statements.

There are three distinct prime numbers whose sum is a prime number.

Question: What are those three numbers ?

Statement-1: Their sum is less than 23.

Statement-2: One of the numbers is 5.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.

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- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

[CSAT 2024]

63. A Question is given followed by two Statements 1 and 2. Consider the Question and the Statements.

Question: Is (x + y) an integer ?

Statement-1: (2x + y) is an integer.

Statement-2: (x + 2y) is an integer.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

[CSAT 2024]

- 64. In some code, letters P, Q, R, S, T represent numbers 4, 5, 10, 12, 15. It is not known which letter represents which number. If Q-S = 2S and T = R + S + 3, then what is the value of P + R - T?
 - (a) 1
 - (b) 2
 - (c) 3

(d) Can't be determined due to insufficient data

SAT MODULES

[CSAT 2024]

Summation <i>n</i> (<i>2n</i>), <i>2n</i> and <i>2n</i>	5

- 65. What is the total number of digits printed, if a book containing 150 pages is to be numbered from 1 to 150?
 - (a) 262 (b) 342 (c) 360
 - (d) 450 [CSAT 2017]

66. While writing all the numbers from 700 to 1000, how many numbers occur in which the digit at hundred's place is greater than the digit at ten's place, and the digit at ten's place is greater than the digit at unit's place?

(a) 61 (b) 64

> (d) 91 [CSAT 2018]

67. A printer numbers the pages of a book starting with 1 and uses 3089 digits in all. How many pages does the book have?

a) 1040	(b) 1048
c) 1049	(d) 1050 [CSAT 2019]

68. One page is torn from a booklet 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 195. The torn page contains which of the following numbers?

(a) 5, 6	(b) 7, 8
(c) 9, 10	(d) 11, 12
0	[CSAT 2020]

69. In the series AABABCABCDABCDE..., which letter appears at the 100th place?

(a) <i>G</i>	(b) <i>H</i>	
(c) <i>I</i>	(d) J	[CSAT 2022]

- 70. What is the sum of all digits which appear in all the integers from 10 to 100?
 - (a) 855

(c) 85

(b) 856 (c) 910

(d) 911

[CSAT 2023]

Quantitative Aptitude | Number System | Probability **Ratio & Proportion** Percentage P&C

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71.	40 children are standing in a of them (say child-1) has a r passed clockwise. Child-1 pass child-2 passes on to child-4, c to child-7 and so on. After 1 changes (including child-1) y in the hands of child-1 again (a) 14 (b) 15 (c) 16 (d) 17	a circle and one ing. The ring is ses on to child-2, hild-4 passes on now many such will the ring be n? [CSAT 2023]	75.	y – yx = 9 Certain 3- characteri 1. All the 2. The nu 3. The nu divisib How many (a) 2	$\begin{array}{c} x - y , x \\ xy + yx = \\ \text{digit num} \\ \text{stics:} \\ \text{e three dig} \\ \text{umber is d} \\ \text{umber on r} \\ \text{le by 7.} \\ y \text{ such 3-d} \end{array}$	yz - zyx = 11(x + y) ibers have its are diff livisible by eversing th igit number (b) 4	99 x - z , the following Gerent. 7. The digits is also ers are there ?
72.	What is the middle term of t Z, Z, Y, Y, Y, X, X, X, X, W, V A? (a) H (b) I (c) J (d) M	he sequence W, W, W, W,, [CSAT 2023]	76.	(c) 6 A 2-digit r the two n one. What (a) 9 (c) 36	number is umbers is is the larg	 (d) 8 reversed. divided b gest possible (b) 27 (d) 45 	[CSAT 2017] The larger of y the smaller le remainder ? [CSAT 2017]
73.	On January 1 st , 2023, a pers On January 2 nd 2023, he sa than that on the previous da 3 rd , 2023, he saved Rs. 2 mo the previous day and so on which date was his total sa square as well a perfect cube (a) 7 th January, 2023 (b) 8 th January, 2023 (c) 9 th January, 2023 (d) Not possible	son saved Rs. 1. ved Rs. 2 more ay. On January re than that on . At the end of vings a perfect ? [CSAT 2024]	77.	There are difference obtained of many such there? (a) 3 (c) 5 A number the middle the number and last d	e certain between on reversi h maximu consists e one is ze er formed b	2-digit n the number ng it is alw im 2-digit (b) 4 (d) Non of three d ro and the oy intercha	umbers. The er and the one ways 27. How numbers are (CSAT 2017] igits of which eir sum is 4. If nging the first
74.	What is the sum of the first following sequence ? 1, 1, 2, 1, 3, 2, 1, 4, 3, 2, 1, 5 (a) 83 (b) 84 (c) 85 (d) 86	28 terms in the , 4, 3, 2, [CSAT 2024]	79.	and last d itself by 19 and last di (a) 1 (c) 3 The ratio number fo 7. The nur (a) 5 (c) 3	of a 2-dig rmed by 1	ceater that ference bet (b) 2 (d) 4 git natural reversing i (ch pairs is (b) 4 (d) 2	I the number (CSAT 2018] number to a ts digits is 4 : (CSAT 2019]

 FLT MOCK
 SECTIONAL TEST
 TOPIC-WISE TEST

 CLOSELY ALIGNED TO RECENT TRENDS...

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80.	 The difference betw the number obtained positions of the digit Consider the follow: 1. The sum of the follow: 1. The sum of the follow: 2. The difference between the number can the number can Which of the above set (a) 1 only (c) Both 1 and 2 	een a 2-digit numl ed by interchang ts is 54. ing statements: two-digits of the r hed only if the pro- s known. between the two d be determined. tatements is/are c (b) 2 only (d) Neither 1 n	ber and ing the number oduct of ligits of orrect f	d e r f ?	 Which one respect of the statements? (a) The Question of the beanswere alone. (b) The Question of the statement of	of the fol the above stion can be e Stateme ered using stion can be atement a stion can be Statement red using e	lowing e Quest be answ nts alon the oth be answ lone. be answ s togeth ither Sta	is correct in ion and the ered by using te, but cannot ter Statement ered by using ered by using er, but cannot atement alone.
	· · ·	[CSA'	T 2021]]	(d) The Que	stion cann	ot be an	nswered even
81.	Let p be a 2-digit number consisting reverse order. If p the difference betw	number and q of same digits write x q = 2430, then y	be the itten ir what is	e n s	by using Cyc	elicity (un	it digit)	ICSAT 2024]
	(a) 45 (c) 18	(b) 27 (d) 9 [CSA	Т 2022]	84.	If 3 ²⁰¹⁹ is di remainder? (a) 1	vided by	10, ther	what is the
82.	Let X be a two-digit two-digit number f the digits of X. If (X digit number, then possible values of X (a) 2 (c) 6	number and Y be a formed by interch (+ Y) is the greate (what is the num (c) (b) 4 (d) 8 [CSA]	another langing est two nber of T 2024]	r g 85. f 86.	 (c) 7 What is the (57242)^{9×7×} (a) 2 (c) 6 What is the zeros in the second the second	unit digit ^{5×3×1} ? (rightmost value of 30	 (a) 9 (b) 4 (d) 8 (d) git p³⁰? (b) 3 	[CSAT 2021] expansion of [CSAT 2023] preceding the
83.	A Question is given by Statements 1 and 2 and the Statements Are of each of P and	iven followed b 2. Consider the Q 3.	by two uestion		(c) 7 Expone	nts (Num	(d) 9 ber of z	[CSAT 2024] eros)
	but more than 10 y the digits of the represents the age	ears. If you inter age of P, the n of Q.	change umbei	s e 87. r	How many zero following probability $1 \times 5 \times 10 \times 10^{-10}$	eroes are t oduct ? $15 \times 20 \times 20$	here at 25×30	the end of the
	Question: What	t is the difference	of their	r		$\times 35 \times 4$	$0 \times 45 \times$	$\times 50 \times 55 \times 60$
	ages	?	.1		(a) 10	((b) 12	
	Statement-1: The a	age of P is greate ge of Q.	er thar	1	(c) 14	((d) 15	[CSAT 2020]
	Statement-2: The stimes	sum of their ages s their difference.	is 11/6	5				

Topic-wise PYQs segregation

CSAT BOOK Theory & Practice Additional questions from other Competitive Exams.

@ungistias 9613-19-20-21 ungist mist.com 🛃 ungist 88. If $15 \times 14 \times 13 \times \dots \times 3 \times 2 \times 1 = 3^m \times n$, where 93. Two Statements are given followed by two m and n are positive integers, then what is Conclusions: the maximum value of m? Statements: All numbers are divisible by 2. (a) 7 All numbers are divisible by 3. (b) 6 Conclusion-1: All numbers are divisible by 6. (c) 5 Conclusion-2: All numbers are divisible by 4. (d) 4 [CSAT 2022] Which of the above Conclusions logically follows/follow from the two given 89. How many consecutive zeros are there at the Statements? end of the integer obtained in the product (a) Only Conclusion-1 $1^2 \times 2^4 \times 3^6 \times 4^8 \times ... \times 25^{50}$? (b) Only Conclusion-2 (a) 50 (c) Neither Conclusion-1 nor Conclusion-2 (b) 55 (d) Both Conclusion-1 and Conclusion-2 (c) 100 [CSAT 2020] (d) 200 CSAT 2024] 94. A digit n > 3 is divisible by 3 but not divisible Divisibility by 6. Which one of the following is divisible by 4? 90. If $ABC \times DEED = ABCABC$; where A, B, C, (a) 2*n* (b) 3*n* D and E are different digits, what are the (c) 2n + 4(d) 3n +values of D and E? [CSAT 2020] (a) D = 2, E = 0(b) D = 0, E = 195. The number 3798125P369 is divisible by 7. What is the value of the digit P? (c) D = 1, E = 0(b) 6 (a) 1 (d) D = 1, E = 2[CSAT 2015] (d) 9 (c) 7 [CSAT 2021] 91. If R and S are different integers both divisible by 5, then which of the following 96. For any choices of values of *X*, *Y* and *Z*, the 6-digit number of the form XYZXYZ is is not necessarily true? divisible by (a) R - S is divisible by 5 (a) 7 and 11 only (b) 11 and 13 only (b) R + S is divisible by 10 (c) 7 and 13 only (d) 7, 11 and 13 (c) $R \times S$ is divisible by 25 [CSAT 2023] (d) $R^2 \times S^2$ is divisible by 5 [CSAT 2016] 97. A number N is formed by writing 9 for 99 92. An 8-digit number 4252746B leaves times. What is the remainder if N is divided remainder '0' when divided by 3. How many by 13? values of *B* are possible ? (a) 11 (b) 9 (a) 2 (b) 3 (c) 7 (d) 1 [CSAT 2023] (c) 4 (d) 6 [CSAT 2019] 98. Each digit of a 9-digit number is 1. It is multiplied by itself. What is the sum of the digits of the resulting number? (a) 64 (b) 80 (c) 81 (d) 100 [CSAT 2023] FOUNDATION BATCH OFFLINE **LIVE-ONLINE** SAT HYBRID RECORDED

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99. 100 101	$222^{333} + 333^{2}$ following num (a) 2 and 3 bu (b) 3 and 37 b (c) 2 and 37 b (d) 2, 3 and 3 . $32^{5} + 2^{27}$ is div (a) 3 (c) 10 .A Question Statements 1 and the State Question: Statement-1: Statement-2: Which one o respect of tl Statements? (a) The Quest one of the	²² is divisible babers ? at not 37 out not 2 out not 3 out not 2 out not 3 out not 3 out not 2 out not 3 out not 3 out not 2 out not 3 out not 4 out no	[CSAT 2024] [CSAT 2024] [CSAT 2024] lowed by two er the Question ime required to software ? e software is 12 r rate is 2.4 second. g is correct in stion and the wered by using one, but cannot	103. If 3^{2019} is diremainder? (a) 1 (c) 7 104. What is the rest of the second se	vided by 10, the (b) 3 (d) 9 remainder when $\times 94 \times 95 \times 96 \times$ $\cdot 1261$? (b) 2 (d) 0 remainder when $\times 91 \times 95 \times 96$ is Sunday, then with 0^{10} th day? lay y	n what is the [CSAT 2021] 97 × 98 × 99 [CSAT 2022] divided by 100 [CSAT 2023] hich day is it
	be answer alone. (b) The Quest either Sta (c) The Quest both the S be answer alone.	red using the o tion can be ans tement alone. tion can be ans tatements toget rred using eitl	ther Statement wered by using wered by using ther, but cannot her Statement	(d) Saturday 107. What is the 6? (a) 0 (b) 1 (c) 2 (d) 4	7 remainder if 2 ¹⁹²	[CSAT 2023] is divided by [CSAT 2023]
	(d) The Ques by using b	tion cannot be both the Statem	answered even nents together.	I	LCM and HCF	
102	Rem . What is the re 51 × 27 × 35 × (a) 50 (c) 5	ainder theore emainder when < 62 × 75 is div (b) 25 (d) 1	[CSAT 2024]	108. Three person their steps m respectively. each should same distance (a) 25 m 20 c (b) 50 m 40 c (c) 75 m 60 c (d) 100 m 80	ns start walking leasure 40 cm, 42 What is the mini walk so that each ce in complete step cm cm cm cm) cm	together and cm and 45 cm mum distance can cover the ps ? [CSAT 2011]
	CSA	MODUL	ES Quantito	ative Aptitude Nu Proportion Pe	umber System ercentage	Probability P & C

9613-19-20-21 🖸 @ungistias ungist mist.com 🛃 ungist 109. There are five hobby clubs in a college viz, 113.A lift has the capacity of 18 adults or photography, yachting, chess, electronics 30 children. How many children can board and gardening. The gardening group meets the lift with 12 adults? every second day, the electronics group meets (a) 6 every third day, the chess group meets every (b) 10 fourth day, the yachting group meets every (c) 12 fifth day and the photography group meets (d) 15 [CSAT 2018] every sixth day. How many times do all the five groups meet on the same day within 180 114. In a school every student is assigned a days? unique identification number. A student is a (a) 3 (b) 5 football player if and only if the identification (c) 10 (d) 18 [CSAT 2013] number is divisible by 4, whereas a student is a cricketer if and only if the identification 110. Five persons fire bullets at a target at an number is divisible by 6. If every number interval of 6, 7, 8, 9 and 12 seconds from 1 to 100 is assigned to a student, then respectively. The number of times they would how many of them play cricket as well as fire the bullets together at the target in an football? hour is (a) 4 (b) 8 (a) 6 (c) 10 (d) 12 [CSAT 2019] (c) 8 (d) 9 [CSAT 2014] 115. If you have two straight sticks of length 111. A bell rings every 18 minutes. A second bell 7.5 feet and 3.25 feet, what is the minimum rings every 24 minutes. A third bell rings length can you measure? every 32 minutes. If all the three bells ring (a) 0.05 foot at the same time at 8 o'clock in the morning, (b) 0.25 foot at what other time will they all ring together ? (c) 1 foot (a) 12:40 hrs (b) 12:48 hrs (d) 3.25 feet [CSAT 2020] (c) 12:56 hrs 116. What is the greatest length x such that $3\frac{1}{2}$ (d) 13:04 hrs [CSAT 2014] 112. There are five hobby clubs in a college m and $8\frac{3}{4}$ m are integral multiples of x? photography, yachting, chess, electronics and gardening. The gardening group meets (a) $1\frac{1}{2}$ m every second day, the electronics group meets every third day, the chess group (b) $1\frac{1}{3}$ m meets every fourth day, the yachting group meets every fifth day and the photography (c) $1\frac{1}{4}$ m group meets every sixth day. How many times do all the five groups meet on the same (d) $1\frac{3}{4}$ m day within 180 days? (a) 5 [CSAT 2020] (b) 18 (c) 10 (d) 3 [CSAT 2016] FLT MOCK | SECTIONAL TEST | TOPIC-WISE TEST Test Series

CLOSELY ALIGNED TO RECENT TRENDS..

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- 117. What is the least 4-digit number when divided by 3, 4, 5 and 6 leaves a remainder 2 in each case ?
 - (a) 1012
 - (b) 1022
 - (c) 1122
 - (d) 1222 [CSAT 2020]
- 118. What is the smallest number greater than 1000 that when divided by any one of the numbers 6, 9, 12, 15, 18 leaves a remainder of 3?
 - (a) 1063
 - (b) 1073
 - (c) 1083
 - (d) 1183

- [CSAT 2022]
- 119. There are three traffic signals. Each signal changes colour from green to red and then from red to green. The first signal takes 25 seconds, the second signal takes 39 seconds and the third signal takes 60 seconds to change the colour from green to red. The durations for green and red colours are same. At 2:00 pm, they together turn green. At what time will they change to green next, simultaneously ?
 - (a) 4:00 pm
 - (b) 4:10 pm
 - (c) 4:20 pm(d) 4:30 pm
- [CSAT 2023]
- 120.421 and 427, when divided by the same number, leave the same remainder 1. How many numbers can be used as the divisor in order to get the same remainder 1?
 - (a) 1 (b) 2
 - (c) 3 (d) 4 [CSAT 2024]

- 121. A can X contains 399 litres of petrol and a can Y contains 532 litres of diesel. They are to be bottled in bottles of equal size so that whole of petrol and diesel would be separately bottled. The bottle capacity in terms of litres is an integer. How many different bottle sizes are possible ?
 - (a) 3 (b) 4 (c) 5 (d) 6 [CSAT 2024]

LCM and HCF (Calendar)

122. Seeta and Geeta go for a swim after a gap of every 2 days and every 3 days respectively. If on 1st January both of them went for a swim together, when will they go together next ?

- (a) 7th January
 (c) 12th January
- (b) 8th January
- (d) 13th January
 - [CSAT 2019]

123. Joseph visits the club on every 5th day, Harsh visits on every 24th day, while Sumit visits on every 9th day. If all three of them met at the club on a Sunday, then on which day will all three of them meet again ?

(a) Monday	(b) Wednesday
(c) Thursday	(d) Sunday
A	[CSAT 2021]

Factors

124. Let x be a positive integer such that 7x + 96 is divisible by x. How many values of x are possible ?

(a) 10	(b) 11
(c) 12	(d) Infinitely many
	[CSAT 2023]

- 125. How many natural numbers are there which give a remainder of 31 when 1186 is divided by these natural numbers ?
 - (a) 6 (b) 7 (c) 8 (d) 9
 - [CSAT 2023]

Topic-wise PYQs segregation

SAT BOOK

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Greatest and least	value	
126. What is the largest num following?	ber among the	
(a) $\left(\frac{1}{2}\right)^{-6}$ (b) $\left(\frac{1}{2}\right)^{-6}$	$\left(\frac{1}{4}\right)^{-3}$	
(c) $\left(\frac{1}{3}\right)^{-4}$ (d) $\left(\frac{1}{3}\right)^{-4}$	$\left(\frac{1}{6}\right)^{-2}$	
	[CSAT 2020]	
127. Which number amongst 2^{40}	, 3^{21} , 4^{18} and 8^{12}	
is the smallest ?		
(a) 2^{10} (b) 3^2		
(c) 4 (d) 8	ICSAT 20221	
14		0.
R		
G	ANSWER KEY	S
14	ANOWER RET	Children and Child
1. (b) 17. (d) 33. ((b) 49. (d) 65. (b)	81. (d) 97. (a) 113.(b)
2. (b) 18. (b) 34. ((c) 50. (c) 66. (c)	82. (d) 98. (c) 114. (b)
3. (c) 19. (c) 35. ((c) 51. (d) 67. (c)	83. (a) 99. (b) 115.(b)
4. (b) 20. (a) 36. ((d) 52. (a) 68. (b)	84. (c) 100.(c) 116.(d)
5. (a) 21. (c) 37. ((a) $53.$ (c) $69.$ (c)	85. (a) 101.(c) 117.(b)
6. (c) 22. (c) 38. ((d) 54. (d) 70. (b)	86. (d) 102.(a) 118.(c)
7. (b) 23. (d) 39. ((c) 55. (b) $71.$ (b)	87. (a) 103.(c) 119.(b)
8. (d) 24. (c) 40. ((d) 56. (a) 72. (b)	88. (b) 104.(d) 120.(c)
9. (a) 25. (c) 41. ((d) $57.$ (d) $73.$ (b)	89. (d) 105.(a) 121.(b)
10. (d) 26. (b) 42. ((c) $58.$ (c) $74.$ (b)	90. (c) 106.(b) 122.(d)
11. (c) 27. (b) 43. ((a) $59.$ (c) $75.$ (b)	91. (b) 107.(d) 123.(b)
12. (c) 28. (a) 44. ((d) 60. (c) 76. (d)	92. (c) 108.(a) 124.(c)
13. (d) 29. (d) 45. ((a) 61. (c) 77. (d)	93. (a) 109.(a) 125.(d)
14. (c) 30. (d) 46. ((b) 62. (a) 78. (b)	94. (d) 110.(b) 126.(c)
15. (b) 31. (b) 47. ((c) 63. (d) 79. (b)	95. (b) 111.(b) 127.(b)
16. (b) 32. (c) 48. ((a) 64. (b) 80. (b)	96. (d) 112. (d)

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