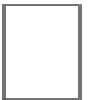


CAT Number SYSTEM TEST 1(All 33)

1. Find the HCF of 748 & 1156.
1. 62 2. 68 3. 54 4. 44 5. None of these
2. Find the HCF of 2016, 2448.
1. 144 2. 148 3. 154 4. 204 5. None of these
3. Find the greatest number that divides 4928 and 5824 exactly.
1. 322 2. 254 3. 448 4. 422 5. 304
4. The greatest number that divides 22176 and 22396 without leaving any remainder is.
1. 48 2. 42 3. 38 4. 52 5. None of these
5. Find the LCM of 18, 30 & 108.
1. 440 2. 520 3. 540 4. 320 5. None of these
6. Find the least number, which when divided by 18 and 24 leaves 5 as remainder.
1. 72 2. 87 3. 59 4. 77 5. None of these
7. Find the least number, which when increased by 2 is exactly divisible by 3, 4, 5, 6 & 7.
1. 418 2. 322 3. 420 4. 422 5. None of these
8. The difference between the local value and face value of 6 in the numeral 856403 is
1. 4 2. 5994 3. 6397 4. 403 5. None of these
9. What is the difference between the place value of 2 and 3 in the number 624135?
1. -1 2. 415 3. 41 4. 19970 5. None of these
10. If the largest four-digit number is subtracted from the smallest six-digit number, then the remainder is:



1. 90001 2. 99990 3. 90909 4. 99000 5. None of these
- 11.** Find the greatest five digit number, which is divisible by 18.
1. 99999 2. 99909 3. 99990 4. 90999 5. None of these
- 12.** The smallest five digit number is how much more than the highest four digit number?
1. 3 2. 30 3. 1 4. 50 5. None of these
- 13.** Children are arranged in a class room in Rows & Columns, so that no. of rows is 5 more than the number of columns. If the total of rows and columns is 25, find the number of children in the class.
1. 30 2. 25 3. 100 4. 125 5. None of these
- 14.** Find the value of x, if $x = 1 + 2 + 3 + 4 + 5 + \dots + 25$.
1. 525 2. 325 3. 235 4. 345 5. 250
- 15.** What is the value of $6758 \div 51$?
1. 344558 2. 355448 3. 366448 4. 344658 5. None of these



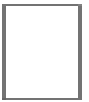
Que. No.	Answer Key	Explanation
1.	2	Find the H.C.F. of 748 and 1156 and get 68 as answer.
2.	1	Find the H.C.F. of 2016 and 2448 and get 144 as answer.
3.	3	Find the H.C.F. of 4928 and 5824 and get 448 as answer.
4.	5	Find the H.C.F. of 22176 and 22396 and get 44 as answer.
5.	3	Find the LCM of 18, 30 and 108 and get 540 as answer.
6.	4	The LCM of 18 and 24 is 72. So the no. is $72 + 5 = 77$.
7.	1	The LCM of 3, 4, 5, 6 & 7 is 420. So the number is $420 - 2 = 418$.
8.	2	The local value of 6 in 856403 is 6000 and face value is 6. So the difference = $6000 - 6 = 5994$
9.	4	The Place value of 2 and 3 in 624135 is 20000 and 30 respectively. So the difference is $20000 - 30 = 19970$.
10.	1	The largest four digit number is 9999 and the smallest six digit number is 100000. So the difference = $100000 - 9999 = 90001$.
11.	3	The greatest five digit number is 99999. If we divide it by 18 we get 9 as the remainder. So the largest five digit number divisible by 18 is $99999 - 9 = 99990$.
12.	3	The smallest five digit number is 10000 and highest four digit number is 9999. So the difference is 1.
13.	5	Let R be the no. of rows and C be the no. of columns, $R = C + 5$ Now $R + C = 25$ \square $C + 5 + C = 25$ \square $2C = 20$ \square $C = 10$ \square No. of rows = 15 \square No. of children = $15 \times 10 = 150$.
14.	2	$\frac{25 \times 26}{2}$ Here $x = 1 + 2 + 3 + 4 + \dots + 25 = \frac{25 \times 26}{2} = 325$.
15.	4	We have $6758 \times 51 = 6758 \times (50 + 1) = (6758 \times 50) + (6758 \times 1) = (337900 + 6758) = 344658$.

CAT Numbers SYSTEM TEST 2 (All 33)

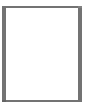
1. Find the HCF of 36, 60 & 132
 1. 13
 2. 12
 3. 18
 4. 16
 5. None of these

2. Find the HCF of 5005 & 8008.
 1. 1001
 2. 101
 3. 303
 4. 5
 5. 81

3. Find the greatest number that divides 9989 and 15697 exactly.



1. 1331 2. 1289 3. 1221 4. 1427 5. None of these
4. Find the LCM of 6, 15, 20, 24, and 30.
1. 70 2. 120 3. 180 4. 240 5. None of these
5. Find the LCM of 20, 25, 30 & 60.
1. 250 2. 460 3. 480 4. 300 5. 240
6. Find the least number which is exactly divisible by 18, 24, 36 & 40.
1. 90 2. 360 3. 120 4. 240 5. 420
7. Find the least number which when divided by 15, 20 & 30 leaves in each case a remainder 3.
1. 63 2. 83 3. 57 4. 77 5. 123
8. Find the least number, which when increased by 4 is exactly divisible by 24, 30, 48 & 54.
- 1.1256 2.2165 3. 2164 4. 2204 5. 2156
- (66)9. In a class test every 3rd question is related to English and every 5th question is related to History. What is the maximum possible number of question in that test?
1. 18 2. 15 3. 14 4. 21 5. None of these
10. What is the smallest three digit prime number?
1. 103 2. 107 3. 113 4. 101 5. None of these
11. A man saves Rs. 1 on day 1, Rs. 2 on Day 2, Rs. 3 on day 3 and so on. What is his total saving in the month of March?
1. Rs.465 2. Rs.520 3. Rs.496 4. Rs.469 5. None of these
12. What number should replace x in this multiplication problem?
- $$\begin{array}{r} 4 \times 6 \\ \underline{\quad 5} \\ 2130 \end{array}$$
1. 2 2. 4 3. 5 4. 8 5. None of these



13. A positive integer, which when added to 15000, gives a sum which is greater than when it is multiplied by 15000. Find this positive integer?
1. 1 2. 3 3. 2 4. 4 5. None of these
14. The sum of two numbers is 22, what is their maximum possible product?
1. 120 2. 201 3. 211 4. 121 5. None of these
15. If x and y are both odd numbers, which of the following is an odd number?
1. $x + y$ 2. $x + y + 1$ 3. $xy - 1$ 4. $xy + 1$ 5. None of these
16. What is the total number of prime numbers less than 50?
1. 18 2. 19 3. 15 4. 10 5. None of these
17. How many prime numbers are even?
1. 0 2. 1 3. 2 4. 4 5. None of these
18. On a paper, first 80 natural numbers are written. Out of these, multiples of 5 are erased. Find the number of remaining natural numbers.
1. 68 2. 70 3. 64 4. 46 5. None of these
19. What is the value of $11596 \div 603 + 11596 \div 397$?
1. 11569000 2. 15969000 3. 11596000 4. 1159600 5. None of these
20. What is the difference between the largest two digit prime number and the least three digit prime number?
1. 16 2. 18 3. 4 4. 9 5. 11

Que. No.	Answer Key	Explanation
1.	2	Find the HCF of 36, 60 & 132 and get 12 as answer.
2.	1	Find the HCF of 5005 & 808 and get 1001 as answer.
3.	4	Find the HCF of 9989 & 15697 and get 1427 as answer.
4.	2	Find the LCM of 6, 15, 20, 24 and 30 and get 120 as answer.



5.	4	Find the LCM of 20, 25, 30 and 60 and get 300 as answer.
6.	2	Find the LCM of 18, 24, 36 and 40 and get 360 as answer.
7.	1	The LCM of 15, 20 and 30 is 60. So the number is $60 + 3 = 63$.
8.	5	The LCM of 24, 30, 48 and 54 is 2160. So the number is $2160 - 4 = 2156$.
9.	3	The LCM of 3 and 5 is 15. So the 15 th question will be of English and History both which is not possible. So maximum number of questions will be 14.
10.	4	100 is divisible by 2, so it is not prime. 101 is not divisible by any of the numbers 2, 3, 5, 7. So, it is prime. Hence, the smallest 3-digit prime number is 101.
11.	3	$\frac{31 \times 32}{2} = 496$ Total saving = $1+2+3 + \dots + 30+31 = \square 31 =$
12.	1	If we replace x by 2 then the product will be 2130.
13.	1	We have $(15000 + N) > (15000N)$. Clearly, $N = 1$.
14.	4	Sum of two numbers is 22. Their maximum product will be obtained, when the numbers are equal. Hence maximum product = $11 \times 11 = 121$.
15.	2	If x and y are both odd numbers then x + y will be even so x + y + 1 will be odd.
16.	3	Prime numbers less than 50 are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 and 47. Their number is 15.
17.	2	2 is the only prime number which is even.
18.	3	No. of multiples of 5 from 1 to 80 = 16. \square Remaining Nos. = $80 - 16 = 64$.
19.	3	We have $11596 \times 603 + 11596 \times 397 = 11596 \times (603 + 397) = 11596 \times 1000 = 11596000$.
20.	3	The greatest two digit prime number is 97 and the least three digit prime number is 101. So their difference is 4.

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