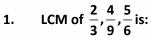


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NUMBER SYSTEM-3_CSAT_QUESTIONS



- (A) $\frac{8}{27}$
- (B) $\frac{20}{3}$
- (C) $\frac{10}{3}$
- (D) $\frac{20}{27}$
- 2. The LCM of two numbers is 1820 and their HCF is 26. If one number is 130 then the other number is
 - (A) 70
 - (B) 1690
 - (C)364
 - (D) 1264
- The LCM of two numbers x and y is 204 times 3. their HCF. If their HCF is 12 and the difference between the numbers is 60, then find (x + y).
 - (A) 660
 - (B) 426
 - (C) 852
 - (D) 348
- The product of two numbers is 6760 and their 4. HCF is 13. How much such pair of numbers can be formed?
 - (A)2
 - (B)3
 - (C) 1
 - (D) 4
- What is the sum of digits of the least number 5. which when divided by 15, 18 and 24 leaves the remainder 8 in each case and is also divisible by 13?
 - (A) 18
 - (B) 17
 - (C) 15
 - (D) 16

- Find the greatest 4-digit number exactly divisible by each of 12, 15, 18 and 27.
 - (A) 9990
 - (B) 9960
 - (C) 9720
 - (D) 9740
- The least number of 6-digit which when 7. divide by 15, 25, 35, 42 and 70 respectively, leave the remainder 11, 21, 31, 38 and 66 respectively?
 - (A) 100796
 - (B) 100386
 - (C) 100256
 - (D) 101046
- The maximum number of students among whom 1001 pens and 910 pencils can be distributed in such a way that each students gets same number of pens and same number of pencils is:
 - (A) 910
 - (B) 1001
 - (C) 1911
 - (D) 91
- What will be the remainder of $\frac{121+93}{9}$? 9.
 - (A) 6
 - (B) 10
 - (C) 8
 - (D) 4
- What will be the remainder when (35)³⁷ is 10. divided by 9?
 - (A) 8
 - (B) 1
 - (C)9
 - (D) 7



- 11. Find the remainder when 1! + 2! + 3! + + 100! is divided by 6.
 - (A) 0
 - (B) 5
 - (C) 8
 - (D) 3
- What will be the remainder when 7⁴⁰ is 12. divided by 400?
 - (A) 9
 - (B) 7
 - (C) 1
 - (D) 3
- 13. When x is divided by 6, the remainder obtained is 3. What will be the remainder when $(x^4 + x^3 + x^2 + x + 1)$ is divided by 6.
 - (A) 0
 - (B) 1
 - (C) -1
 - (D) 2
- 14. A number, x when divided by 7 and 9 leaves remainder 3 and 6 respectively. Find the reminder if the same number is divided by 63.
 - (A) 45
 - (B) 48
 - (C)57
 - (D) 11
- Find the sum of all factors of 240 which are **15.** multiple of 5.
 - (A) 310
 - (B) 620
 - (C)340
 - (D) 640
- 16. Find the number of odd factors of 30¹⁶×16¹⁸×20²¹.
 - (A) 323
 - (B) 646
 - (C) 389
 - (D) 676

- **17.** Find the sum of even factors of 100.
 - (A) 186
 - (B) 31
 - (C) 217
 - (D) 156
- 18. In how many ways can you express 216 as a product of two of its factors?
 - (A) 4
 - (B)6
 - (C) 10
 - (D) 8
- 19. Find the sum of odd factors of 720.
 - (A) 64
 - (B) 78
 - (C) 80
 - (D) 60
- 20. Find the prime factors of 210.
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5

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