# NUMBER SYSTEM - LCM & HCF

**Find LCM & HCF of the following**

1. 12, 15, 18
2. 25, 30, 45

**Fractions based questions**

3. 1/3 ,5/6 , 5/4, 10/7
4. 6/9, 4/12 and 3/18

**Decimal based Questions**

5. 0.6,9.6 and 0.36
6. 1.2, 1.5, 2.5

**Product of Numbers**

7. If H.C.F. and L.C.M. of two numbers are 3 and 60 respectively and. one number is 12 then find the other number.
8. The LCM of two numbers is 2079 and their HCF is 27. If one of the numbers is 189,then the other number is?
9. The H.C.F and L.C.M of two numbers are 11 and 385 respectively. If one number lies between 75 and 125 , then that number is
10. If the sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:

**Same & Different remainders - LCM**

11. The least number which when divided by 8, 12 and 16, leave in each remainder 3, is?
12. The least multiple of 7, which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is:
13. Find the least number which when divided by 10, 9 & 8 leaves remainder 9, 8 & 7 respectively in each case.

**Same & Different remainders - HCF**

14. Find the Greatest Number that will divide 43, 91 and 183 so as to leave the same remainder in each case
15. The greatest number that will divide 148, 246, and 623 leaving remainders 4, 6, and 11, respectively, is

**Least and Highest 3 or 4 digit Number (Only LCM)**

16. Find the least number of 4 digit which is divisible by 4, 6, 8 & 10 leaves no remainder.
17. Find the smallest 4 digit number such that when divided by 12, 18, 21, 28 leaves remainder 3 in each case.
18. Find the greatest number of three digits which on being divided by 2, 3, 4 and 5 leaves 1, 2, 3 and 4 as remainders respectively.
19. Find the greatest 4 digit number which when divided by 12, 15, 20 & 35 leaves no remainder.

**Ratio based questions**

20. Three numbers are in the ratio of 3 : 4 : 5 and their L.C.M. is 2400. Their H.C.F. is:
21. The ratio of two numbers is 3 : 4 and their H.C.F is 4. Their L.C.M

**Application based**

22. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ?
23. A merchant has three different types of milk: 25 liters, 55 liters and 125 liters. Find the least number of casks of equal size required to store all the milk without mixing.
24. Three friends J, K and L jog around a circular stadium and complete one round in 12, 18 and 20 seconds respectively. In how many minutes will all the three meet again at the starting point.
25. The traffic lights at three different road crossings change after every 40 sec, 72 sec and 108 sec respectively. If they all change simultaneously at 5 : 20 : 00 hours, then find the time at which they will change simultaneously.