Number System

1.Which of the following fraction is the smallest 7/6,7/9,4/5,5/7 ?

A)7/6

B)7/9

C)4/5

D)5/7

2. Which of the following is the largest fraction 6/7, 5/6,7/8,4/5?

A)6/7

B)4/5

C)5/6

D)7/8

3.Which of the following is the largest fraction 5/7, 6/7,8/9,4/5?

A)5/7

B)6/7

C)8/9

D)4/5

The cube of 97 is

4.The number when divided by 677 leaves a remainder 65.If the same is divided by 30, the remainder will be

5.A number when divided by 296 gives a remainder 75.when the same number is divided by 37 the remainder will be

A)1

B)2

C)8

D)11

6. (49)^15 -1 is exactly divisible by

A)50

B)51

C)8

D)29

7.If 5432\*7 is divisible by 9 , then the digit in place of \* is

A)0

B)1

C)6

D)9

8. If 6435\*7 is divisible by 3, then the digit in place of \* is

9. The smallest number to be added to 1000 , so that 45 divides the sum exactly is

A)35

B)80

C)20

D)10

10. The smallest number to be added to 1000 , so that 35 divides the sum exactly is

11. 1/5 of a number exceeds 1/7 of the same number by 10.The number is

A)25

B)150

C)175

D)200

12. 2/5 of a number exceeds 3/7 of the same number by 15.The number is

13.The product of two positive numbers is 2500.If one number is four times the other , then the sum of the two numbers is

A)25

B)125

C)225

D)250

14.The product of two positive numbers is 900.If one number is four times the other , then the sum of the two numbers is

15. What is the largest 4 digit number that is exactly divisible by 93?

A)9961

B)9971

C)9981

D)9951

16. What is the largest 4 digit number that is exactly divisible by 61?

17. The sum of a fraction and 3 times its reciprocal is 37/10.what is the fraction ?

A)5/2

B)2/5

C)5/4

D)4/5

18.The sum of a fraction and 10 times its reciprocal is 37/4. what is the fraction ?

A)5/4

B)4/5

C)3/4

D)4/3

HCF and LCM

1. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.

A)4

B)7

C)9

D)13

2.Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is:

A)4

B)5

C)6

D)8

3.The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

A)276

B)299

C)322

D)345

4.The H.C.F. of two numbers is 38 and the other two factors of their L.C.M. are 14 and 15. The larger of the two numbers is:

5. 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 ?

A)4

B)10

C)15

D)16

6. five bells commence tolling together and toll at intervals of 6, 8 10 and 20 seconds respectively. In 40 minutes, how many times do they toll together ?

7. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

A)9000

B)9400

C)9600

D)9800

8. The greatest number of four digits which is divisible by 15,20, 30 and 45 is:

9. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:

A)101

B)107

C)111

D)185

6. Three number are in the ratio of 3 : 4 : 5 and their L.C.M. is 2400. Their H.C.F. is:

A)40

B)80

C)120

D)200

Practice Question

The ratio of two numbers is 3 : 4 and their H.C.F. is 4. Their L.C.M. is:

A)12

B)16

C)24

D)48

7. The G.C.D. of 1.08, 0.36 and 0.9 is:

A)0.03

B)0.9

C)0.18

D)0.108

9. The least multiple of 7, which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is:

A)74

B)94

C)184

D)364

10. The least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3 is:

A)3

B)13

C)23

D)33

11. The least number which when divided by 5, 6 , 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder, is:

A)1677

B)1683

C)2523

D)3363

12. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30 ?

A)196

B)630

C)1260

D)2520

13. The smallest number which when diminished by 7, is divisible 12, 16, 18, 21 and 28 is:

A)1008

B)1015

C)1022

D)1032

14. Find the LCM of 15,24,35 & 54

a)7650

b)7560

c)6570

d)5670

15. Find the HCF of 240 ,280 & 560

a)40

b)30

c)20

d)10

16.HCF of 2/3 ,4/5 and 6/7 is

a)48/105

b)2/105

c)1/105

d)24/105

17. A number between 1000 and 2000 which when divided by 30 ,36 and 80 gives remainder 11 in each case is

a)11523

b)1451

c)1641

d)1712

18. The number between 4000 and 5000 that is divisible by each of 12, 18 ,21 and32 is

a)4203

b)4032

c)4032

d)4302

19. The LCM of four consecutive numbers is 60.The sum of the first two numbers is equal to the fourth number .what is the sum of four numbers ?

a)17

b)14

c)21

d)24

20. The two numbers are 55 and 99, HCF is 11, what their LCM?

a)486

b)479

c)476

d)495

21. The two numbers are 88 and 33 , HCF is 11 ,find the LCM?

a)264

b)235

c)238

d)246

22. Find the HCF OF 1/2 ,3/4,5/6,7/8 ,9/10

a)1/20

b)1/7

c)1/32

d)1/40

23. What is the HCF of 7/16 ,21/32 and 49/8 ?

a)147/32

b)32/7

c)7/32

d)None

24. The LCM of 1/6 ,7/27,5/9,4/15 and 8/3 is

a)280/3

b)3/280

c)280/15

d)15/280