



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) 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

3) 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

4) 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

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

- a) 9000 b) 9400
c) 9600 d) 9800

6) 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

7) Three numbers 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

8) 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 product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is:

- a) 1 b) 2
c) 3 d) 4

10) 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

11) 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





12) 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

13) A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and c in 198 seconds, all starting at the same point. After what time will they again at the starting point ?

- a) 26 minutes and 18 seconds
b) 42 minutes and 36 seconds
c) 45 minutes
d) 46 minutes and 12 seconds

14) The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other is:

- a) 279 b) 283
c) 308 d) 318

15) 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

16) 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

17) 252 can be expressed as a product of primes as:

- a) $2 \times 2 \times 3 \times 3 \times 7$
b) $2 \times 2 \times 2 \times 3 \times 7$
c) $3 \times 3 \times 3 \times 3 \times 7$
d) $2 \times 3 \times 3 \times 3 \times 7$

18) .The greatest possible length which can be used to measure exactly the lengths 7 m, 3 m 85 cm, 12 m 95 cm is:

- a) 15 cm b) 25 cm
c) 35 cm d) 42 cm

19) Find the highest common factor of 36 and 84.

- a) 4 b) 6
c) 12 d) 18

20) The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:

- a) 504 b) 536
c) 544 d) 548

21) The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is:

- a) 123 b) 127
c) 235 d) 305





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22) Which of the following has the most number of divisors?

- a) 99 b) 101
c) 176 d) 182

23) The L.C.M. of two numbers is 48. The numbers are in the ratio 2 : 3. Then sum of the number is:

- a) 28 b) 32
c) 40 d) 64

24) The H.C.F. of $\frac{9}{10}, \frac{12}{25}, \frac{18}{35}$ and $\frac{21}{40}$ is

- a) $\frac{3}{5}$ b) $\frac{252}{5}$
c) $\frac{3}{1400}$ d) $\frac{63}{700}$

25) If the students of a class can be grouped exactly into 6 or 8 or 10, then the minimum number of students in the class must be

- a) 240 b) 180
c) 120 d) 60

26) The greatest number of four digits which when divided by 3, 5, 7, 9 leave remainders 1, 3, 5, 7 respectively is :

- a) 9765 b) 9766
c) 9764 d) 9763

27) Three electronic devices make a beep after every 48 seconds, 72 seconds and 108 seconds respectively. They beeped

together at 10 a.m. The time when they will next make a beep together at the earliest is

- a) 10 : 07 : 48 hours
b) 10 : 07 : 36 hours
c) 10 : 07 : 24 hours
d) 10 : 07 : 12 hours

28) Which is the least number which when doubled will be exactly divisible by 12, 18, 21 and 30 ?

- a) 196 b) 630
c) 1260 d) 2520

29) A, B, C start running at the same time and at the same point in the same direction in a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds. After what time will they meet again at the starting point ?

- a) 46 minutes 12 seconds
b) 45 minutes
c) 42 minutes 36 seconds
d) 26 minutes 18 seconds

30) Three bells ring at intervals of 36 seconds, 40 seconds and 48 seconds respectively. They start ringing together at a particular time. They will ring together after every

- a) 24 minutes b) 18 minutes
c) 12 minutes d) 6 minutes





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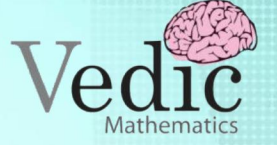
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31) Four runners started running simultaneously from a point on a circular track. They took 200 seconds, 300 seconds, 360 seconds and 450 seconds to complete one round. After how much time do they meet at the starting point for the first time ?

- a) 4800 seconds b) 2400 seconds
c) 3600 seconds d) 1800 seconds

32) Find the largest number of four digits such that on dividing by 15, 18, 21 and 24 the remainders are 11, 14, 17 and 20 respectively.

- a) 7664 b) 5675
c) 7556 d) 6557

33) What is the smallest number which leaves remainder 3 when divided by any of the numbers 5, 6 or 8 but leaves no remainder when it is divided by 9 ?

- a) 243 b) 723
c) 603 d) 123

34) The greatest number, which when subtracted from 5834, gives a number exactly divisible by each of 20, 28, 32 and 35, is

- a) 5600 b) 5200
c) 4714 d) 1120

35) Five bells begin to toll together and toll respectively at intervals of 6, 7, 8, 9 and 12

seconds. After how many seconds will they toll together again ?

- a) 318 Sec. b) 504 Sec.
c) 612 Sec. d) 72 Sec.

36) The LCM of two prime numbers x and y , ($x > y$) is 161. The value of $(3y - x)$:

- a) 2 b) 1
c) -1 d) -2

37) Four bells ring at intervals of 4, 6, 8 and 14 seconds. They start ringing simultaneously at 12.00 O'clock. At what time will they again ring simultaneously ?

- a) 12 hrs. 3 min. 44 sec.
b) 12 hrs. 3 min. 20 sec.
c) 12 hrs. 3 min.
d) 12 hrs. 2 min. 48 sec.

38) What is the least number which when divided by the numbers 3, 5, 6, 8, 10 and 12 leaves in each case a remainder 2 but when divided by 13 leaves no remainder ?

- a) 1586 b) 1562
c) 962 d) 312

39) The smallest perfect square divisible by each of 6, 12 and 18 is

- a) 36 b) 108
c) 144 d) 196

40) The least perfect square, which is divisible by each of 21, 36 and 66 is





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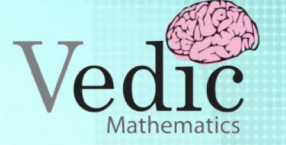
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a) 231444

b) 213444

c) 214434

d) 214344

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