Spardhaguru India Private Limited
DMAS with HCF & LCM Paper 5

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Vedic Mathematics

1) The sum of the H.C.F. and L.C.M of two numbers is 680 and the L.C.M. is 84 times the H.C.F. If one of the number is 56, the other is :
a) 84 b) 8
c) 12 d) 96

2) The smallest five digit number which is divisible by 12,18 and 21 is :
a) 10224 b) 10080
c) 30256 d) 50321

3) If A and B are the H.C.F. and L.C.M. respectively of two algebraic expressions x and y, and A + B = x + y, then the value of A3 + B3 is
a) x 3 – y 3 b) y 3
c) x 3 d) x 3 + y 3

4) A number between 1000 and 2000 which when divided by 30, 36 and 80 gives a remainder 11 in each case is
a) 1451 b) 1712
c) 1641 d) 1523

5) The sum of a pair of positive integer is 336 and their H.C.F. is 21. The number of such possible pairs is
a) 2 b) 4
c) 3 d) 5

6) HCF and LCM of two numbers are 7 and 140 respectively. If the numbers are between 20 and 45, the sum of the numbers is :
a) 70 b) 63
c) 77 d) 56

7) The product of the LCM and the HCF of two numbers is 24. If the difference of the numbers is 2, then the greater of the number is
a) 3 b) 6 c) 4 d) 8

8) The sum of two numbers is 84 and their HCF is 12. Total number of such pairs of number is
a) 2 b) 4
c) 3 d) 5

9) L.C.M. of two numbers is 120 and their H.C.F. is 10. Which of the following can be the sum of those two numbers ?
a) 140 b) 60
c) 80 d) 70

10) Sum of two numbers is 384. H.C.F. of the numbers is 48. The difference of the numbers is
a) 100 b) 288
c) 192 d) 336

11) The number between 3000 and 4000 which is exactly divisible by 30, 36 and 80 is
a) 3625 b) 3500
c) 3250 d) 3600

12) The sum of two numbers is 36 and their H.C.F and L.C.M. are 3 and 105 respectively. The sum of the reciprocals of two numbers is
a) 2 35 b) 4 35
c) 3 25 d) 2 25

13) The LCM of two numbers is 12 times their HCF. The sum of the HCF and the LCM is 403. If one of the number is 93, then the other number is
a) 124 b) 134
c) 128 d) 138

14) The LCM of two numbers is 495 and their HCF is 5. If the sum of the numbers is 100, then their difference is :
a) 10 b) 70
c) 46 d) 90

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15) If the product of three consecutive numbers is 210 then sum of the smaller number is :

a) 3 b) 5
c) 4 d) 11

16) Let x be the least number, which when divided by 5, 6, 7 and 8 leaves a remainder 3 in each case but when divided by 9 leaves no remainder. The sum of digits of x is

a) 21 b) 18
c) 22 d) 24

17) Three numbers which are coprime to one another are such that the product of the first two is 551 and that of the last two is 1073. The sum of the three numbers is :

a) 75 b) 85
c) 81 d) 89

18) The greatest four digit number which is exactly divisible by each one of the numbers 12, 18, 21 and 28 is

a) 9828 b) 9882
c) 9288 d) 9928

19) The sum of two numbers is 216 and their HCF is 27. How many pairs of such numbers are there?

a) 1 b) 3
c) 2 d) 0

20) The number between 4000 and 5000 that is divisible by each of 12, 18, 21 and 32 is

a) 4023 b) 4302
c) 4032 d) 4203

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