



HCF & LCM

Name: _____ Time: 20 mins

- The sum of two numbers is 216 and their H.C.F. is 27. The numbers are
(a) 54, 162 (b) 108, 118
(c) 27, 189 (d) None of these
- How often will five bells toll together in one hour if they start together and toll at intervals of 5, 6, 8, 12, 20 secs, respectively?
(a) 29 (b) 30
(c) 31 (d) 120
- The traffic lights at three different road crossings change after every 48s., 72s and 108s., respectively. If they change simultaneously at 8:20:00 hrs they again change simultaneously at:
(a) 8:27:12 hrs (b) 8:27:24 hrs
(c) 8:27:36 hrs (d) 8:27:48 hrs
- The product of two numbers is 6760 and their H.C.F. is 13. How many such pairs can be formed?
(a) 2 (b) 3
(c) 4 (d) only one
- The number of prime factors in the expression $(6)10 \times (7)17 \times (11)27$ is:
(a) 54 (b) 64
(c) 71 (d) 81
- Three pieces of timber 42 m, 49 m and 63 m long have to be divided into planks of the same length. What is the greatest possible length of each plank?
(a) 7m (b) 14m
(c) 42m (d) 63m
- Three men start together to travel the same way around a circular track of 11 kilometers in circumference. Their speeds are 4, $5\frac{1}{2}$ and 8 kilometers per hour, respectively. When will they meet at the starting point?
(a) 11 hrs (b) 12 hrs
(c) 23 hrs (d) 22 hrs
- Three different containers contain different quantities of mixture of milk and water, whose measurements are 403 kg, 434 kg and 465 kg. What biggest measure must be there to measure all the different quantities exactly?
(a) 1kg (b) 7kg
(c) 31 kg (d) 41 kg
- Find the least number of five digits which divided by 63, 56 and 42 leaves a remainder 1.
(a) 10082 (b) 10081
(c) 10001 (d) 10071
- Area of three fields is 165 sq m, 195 sq m and 85 sq m respectively. In each of the fields a flower bed of equal length has to be made. If flower bed is 3 m wide then what is the max length of the flower bed in each of the fields?
(a) 7m (b) 9 m
(c) 5 m (d) None of these
- A merchant has three different kinds of milk 435 liters, 493 liters and 551 liters. Find least number of casks of equal size required to store all the milk without mixing.
(a) 51 (b) 61
(c) 47 (d) 45
- Find the greatest number of five digits which when divided by 12, 15, 21, 25 and 28 leaves 5, 8, 14, 18 and 21 as remainders, respectively,
(a) 98696 (b) 98700
(c) 97693 (d) 98693
- Find the greatest number of five digits which becomes exactly divisible by 10, 12, 18 and 15 when 3769 is added to it.
(a) 99811 (b) 99911
(c) 98911 (d) 99011
- Find the least number of five digits which when divided by 8, 12, 16 and 20 leaves remainders 5, 9 and 13, respectively,
(a) 10003 (b) 10093
(c) 10073 (d) 10013
- What is the least number of cut pieces of equal length that can be cut out of two lengths 10m 857mm & 15m 87mm?
(a) 174 (b) 172
(c) 164 (d) 184
- The L.C.M. of two numbers is 4800 and HCF is 160. If one of the numbers is 480. Then the second number is. [Based on MAT 2004]
(a) 16 (b) 16000
(c) 160 (d) 1600
- An electronic device makes a beep after every 60 sec. Another device makes a beep after every 62 sec. They beeped together at 10 a.m. The time when they will next make a beep together at the earliest is. [Based on MAT 2005]
(a) 10.30a.m. (b) 10.31 a.m.
(c) 10.59a.m. (d) 11 a.m.