Q 1 - Compute H.C.F of (22\* 23\*5\*74), (23\*32\*52\*73) and (22\*53\*75).

[A - 6760](javascript:void(0);)

[B - 6860](javascript:void(0);)

[C - 6960](javascript:void(0);)

[D - 7060](javascript:void(0);)

Q 2 - Find the H.C.F of 108, 360 and 600.

[A - 12](javascript:void(0);)

[B - 13](javascript:void(0);)

[C - 14](javascript:void(0);)

[D - 15](javascript:void(0);)

Q 3 - Find the H.C.F of 148 and 185.

[A - 37](javascript:void(0);)

[B - 38](javascript:void(0);)

[C - 39](javascript:void(0);)

[D - 40](javascript:void(0);)

Q 4 - Find the H.C.F of 204, 1190 and 1445.

[A - 16](javascript:void(0);)

[B - 17](javascript:void(0);)

[C - 18](javascript:void(0);)

[D - 19](javascript:void(0);)

Q 5 - Reduce 391/667 to lowest terms.

[A - 7/29](javascript:void(0);)

[B - 27/29](javascript:void(0);)

[C - 17/29](javascript:void(0);)

[D - 37/29](javascript:void(0);)

Q 6 - Find the L.C.M of (22\*32\*5\*7) , (2³\*3\*52\*72) and (2\*3\*7\*11).

[A - 970200](javascript:void(0);)

[B - 97020](javascript:void(0);)

[C - 9702](javascript:void(0);)

[D - 970](javascript:void(0);)

Q 7 - Find the L.C.M of 15, 18, 24, 27, 56.

[A - 7260](javascript:void(0);)

[B - 7360](javascript:void(0);)

[C - 7460](javascript:void(0);)

[D - 7560](javascript:void(0);)

Q 8 - Find the H.C.F and L.C.M of 2/3 , 8/9 , 10/27 and 16/81.

[A - 45](javascript:void(0);)

[B - 55](javascript:void(0);)

[C - 65](javascript:void(0);)

[D - 75](javascript:void(0);)

Q 9 - Two numbers are in the ratio 8:11 . Considering their H.C.f as 6, find the numbers.

[A - 58.79](javascript:void(0);)

[B - 48.66](javascript:void(0);)

[C - 38.56](javascript:void(0);)

[D - 28.33](javascript:void(0);)

Q 10 - Given the H.C. F of two numbers as 7 and their L.C.M as 210. If one of the numbers is 35, find the other.

[A - 32](javascript:void(0);)

[B - 42](javascript:void(0);)

[C - 52](javascript:void(0);)

[D - 62](javascript:void(0);)

Q 11 - Three big drums contain 36 liters, 45 liters and 72 liters of oil. What is the biggest measure which can measure all the different quantities exactly?

[A - 9 liters](javascript:void(0);)

[B - 10 liters](javascript:void(0);)

[C - 11 liters](javascript:void(0);)

[D - 12 liters](javascript:void(0);)

Q 12 - Four electronic devices make a beep after duration of 30 minutes, 1 hour, 3/2 hours and 1 hour 45 min. respectively. If all the devices beeped together at 12 noon at what time will they beep together again?

[A - 9 am](javascript:void(0);)

[B - 10 am](javascript:void(0);)

[C - 11 am](javascript:void(0);)

[D - 11:30 am](javascript:void(0);)

Q 13 - Find the largest number which can exactly divide 513, 783 and 1107.

[A - 22](javascript:void(0);)

[B - 23](javascript:void(0);)

[C - 24](javascript:void(0);)

[D - 25](javascript:void(0);)

Q 14 - Find the smallest number which is exactly divisible by each one of the numbers 12, 15, 20 and 27.

[A - 540](javascript:void(0);)

[B -530](javascript:void(0);)

[C - 520](javascript:void(0);)

[D - 510](javascript:void(0);)

Q 15 - Find the least number which if divided by 6, 7, 8, 9, 12 leaves the same remainder 2 in each case.

[A - 506](javascript:void(0);)

[B - 504](javascript:void(0);)

[C - 502](javascript:void(0);)

[D - 500](javascript:void(0);)

Q 16 - Find the largest natural number which can divide the product of any 4 consecutive natural numbers.

[A - 23](javascript:void(0);)

[B - 24](javascript:void(0);)

[C - 25](javascript:void(0);)

[D - 26](javascript:void(0);)

Q 17 - Find the least number which if divided by 35, 45 and 55 leaves the remainder 18, 28 and 38 respectively.

[A - 3448](javascript:void(0);)

[B - 3458](javascript:void(0);)

[C - 3468](javascript:void(0);)

[D - 3478](javascript:void(0);)

Q 18 - The H.C.F of 1/2 , 2/3 , 3/4 , 4/5 is

[A - 1/120](javascript:void(0);)

[B - 12/5](javascript:void(0);)

[C - 100/3](javascript:void(0);)

[D - 10/3](javascript:void(0);)

Q 19 - The H.C.F of 2/3, 8/9 , 10/27 , 32/81.

[A - 160/81](javascript:void(0);)

[B - 160/3](javascript:void(0);)

[C - 2/81](javascript:void(0);)

[D - 2/3](javascript:void(0);)

Q 20 - Which of the following is a pair of Co-primes?

[A - (14, 35)](javascript:void(0);)

[B - (18, 25)](javascript:void(0);)

[C - (31, 93)](javascript:void(0);)

[D - (32,62)](javascript:void(0);)

**Answer - B**

**Explanation**

Prime numbers which are common to all the given numbers are 2,5 ,7.

∴ H.C.F = (22\*5\*73)= (4\*5\*343) = 6860

**Answer - A**

**Explanation**

108 = (22\*33) , 360 = (23\*32\*5) and 600 = (23\*52\*3)

∴ H.C.F = (22\* 3) = (4\* 3)=12

**Answer - A**

**Explanation**

Remainder of 185/148 = 37

Remainder of 148/37 = 0

∴ H.C.F. = 37

**Answer - B**

**Explanation**

Remainder of 1190/204 = 170

Remainder of 204/170 = 34

Remainder of 170/34 = 0

∴ H.C.F. of 204, 1190 = 34

Remainder of 1145/34 = 17

Remainder of 34/17 = 0

∴ H.C.F. of 204, 1190 and 1145 = 17

**Answer - C**

**Explanation**

First we find the H.C.F of 391 and 667.

Remainder of 667/391 = 276

Remainder of 391/276 =115

Remainder of 276/115 = 46

Remainder of 115/46 = 23

Remainder of 46/23= 0

∴ H.C.F. of 391, 667 = 23

∴ 391/667 =( 391/23)/ (667/23)= 17/29

**Answer - A**

**Explanation**

We have L.C.M = product of terms containing highest powers of (2,3,5,7,11)

= (2³\* 32\* 52\*72\*11) = (8\*9\*25\*11\*49)= 970200

**Answer - D**

**Explanation**

15 = 3 \* 5

18 = 2\* 3 \* 3 = 2 \* 3 2

24 = 2 \*2 \* 2 \* 3 = 2 3 \* 3

27 = 3 \* 3 \* 3 = 3 3

56 = 2 \* 2 \* 2 \* 7= 2 3 \* 7

L.C.M = product of terms containing highest powers of (2,3,5,7) =2 3 \* 3 3 \* 5 \* 7 = 7560

**Answer - D**

**Explanation**

H.C.F of 2,8,10,16 = 2

L.C.M of 3,9,27,81 = 81

H.C.f = H.C.F of 2,8,10,16/L.C.M of 3,9,27,81 = 2/81

L.C.M = L.C.M of 2,8,10,16/H.C.F of 3,9, 27,81 = 80/3

**Answer - B**

**Explanation**

Let the numbers be 8x and 11 x. then, their H.C.F = x

So, the numbers are (8\*6), (11\*6) i.e 48 and 66.

**Answer - B**

**Explanation**

Let the Other number be X. then,

Product of numbers = product of their H.C .F and L.C.M

35\*x= 7\* 210 ⇒ x= 7\*210/35 = 42

Hence, the other number is 42.

**Answer - A**

**Explanation**

Required measure = H.C.F of 36 L, 45 L, and 72 L

= (32) liters = 9 liters

[As 36 = 22\*32, 45 = 32\*5 and 72 = 24\* 34]

**Answer - A**

**Explanation**

Intervals of beeping 30 min, 60 min, 90 min, 105 min.

Interval of beeping together= L.C.M of 30 min. 60 min. 90 min. 105 min

= (3\*5\*2\*2\*3\*7) min. = 1260 min = 21 hrs.

So, they will beep together again next morning at 9 am.

**Answer - B**

**Explanation**

Remainder of 783/513 = 270

Remainder of 513/270 =243

Remainder of 270/243 = 27

Remainder of 243/27 = 0

Remainder of 46/23= 0

∴ H.C.F. of 513, 783 = 23

Remainder of 1107/23 = 0

∴ H.C.F. of 513, 783 and 1107= 23

**Answer - A**

**Explanation**

Required no. = L.C.M of 12,15, 20 and 27

= (3\*2\*2\*5\*9) = 540

**Answer - A**

**Explanation**

Required number = (L.C.M of 6,7,8,9,12)+2 = (2\*3\*2\*7\*2\*3)+ 2 = (504+2)= 506.

**Answer - B**

**Explanation**

(1\*2\*3\*4) = 24

∴ Required number = 24

**Answer - A**

**Explanation**

Here (35-18) = 17 , (45-28)= 17 and (55- 38) = 17

Required number = (L.C.M of 35,45, 55)- 17 = (3465 -17) = 3448

**Answer - A**

**Explanation**

H.C.F = H.C.F of 1,2,3,4/ L.C.M of 2,3,4,5 = 1/120

**Answer - C**

**Explanation**

H.C.F = H.C.F of 2, 8,10, 32/ L.C.M of 3,9, 27, 81 = 2/81

**Answer - B**

**Explanation**

H.C.F of 18 and 25 is 1.

∴ 18 and 25 are co-primes.