Quantitative Aptitude

CONNECT

If the sum of two numbers is 27 and the HCF and LCM are 3 and 60 respectively, then the sum of the reciprocal of the two numbers is :

A. 1/10
B. 1/5
C. 3/10
D. 3/20

CONNECT

The LCM of two numbers is 35322. If the numbers are in the ratio 1:3 then their HCF is :

A. 11774
B. 35322
C. 23542
D. 58870

Simplify (3/7 + 22 4/7 – 2/8 divided by 1/4).

A. 22

B. 21

C. 3 2/7

D. 3 3/7

CONNECT

What is the value of 15C13?

A. 30
B. 15
C. 210
D. 105

Which number should be multiplied by 43 so that it will have 3 prime factors?

A. 2

B. 3

C. 6

D. 8

CONNECT

Log 3600 is equal to:

A. 2 log 6 +1
B. 6 log 2 + 1
C. 2 log 6 + 2
D. 6 log 2 +2

CONNECT

What is the square root of 7 ½, when it is expressed as a mixed fraction?

A. 49 1/2
B. 49 1/4
C. 56 1/4
D. 14 1/3

CONNECT

Find the number to be multiplied by $(-6)^{-1}$, so as to get $(-8)^{-1}$ as the product?

A. ¾

B. -(3/4)

C. 4/3

D. -(4/3)

CONNECT

What is the value of $\text{antilog}_{10} 100$?

A. 2

B. 10^{100}

C. 100

D. 10

If LCM and HCF of 2 numbers are 162 and 9 respectively. Prime factors of the product of the two numbers are:

A company hired 35 new employees and categorised them as per their joining dates. 21 had joined before 28.02.2012 and 14 had joined after 28.02.2012. The new joinees were called for a meeting to discuss any problem they faced at the workplace. 3 representatives were chosen randomly to speak on behalf of the rest. What is the probability of selecting 2 employees who had joined before 28.02.2012 and 1 after 28.02.2012?

A. 546/935
B. 84/187
C. 252/2431
D. 126/2431

CONNECT

If $xy = x^{x,}$ then $1/(\log_x(y)+1) =$

What are the number of ways of arranging 9 books out of 14 in a library where the librarian, while arranging the books, got 2 damaged books and sent them for rebinding and repairing?

A. 12C4
B. 12P9
C. 14C7
D. 14P7

CONNECT

Find the value of $\log(\sqrt{64})\log 8$.

A. 1

B. 2

C. 8

D. 16

Which of the given logarithmic expression is NOT possible?

A. $\log_5 7$
B. $\log_{10} 1$
C. $\log_5 -7$
D. $\log_5 (1/5)$
E. $\log_{10} e$

CONNECT

If 7^3, 2^7 and 9^3 are factors of a number denoted by (a* 2^6 * 91* 81), then what is the smallest possible value of a?

CONNECT

Log1664 – log6416 is equal to:

A. 2/3

B. 5/6

C. 3/2

D. 6/5

Out of 5 men and 3 women, a committee of 4 member is to be formed. In how many ways can it be done if the committee includes at least one woman?

The value of $\log_{abc} a^2b^2c^2$ is:

A. abc
B. ab
C. 1
D. 2

CONNECT

What is the value of $(5^{-2} \times 10^{-4})/(2^{-5} \times 5^{-6})$

An investment earns 4 paisa per rupee invested. if at the end of the year, the interest earned by an investment is Rs.100,then the investment is equal to?

A. Rs. 2000
B. Rs. 2200
C. Rs. 1000
D. Rs. 2300
E. Rs. 2400

CONNECT

If $\log_x(1/343) = -3$, then the value of x is equal to:

If LCM and HCF of two numbers are 294 and 49 respectively, product of 2 numbers can be expressed as:

A. $2 \times 3 \times 7^4$

B. $2^2 \times 3^2 \times 7^2$

C. $2^4 \times 3^2 \times 7$

D. $2^2 \times 3^4 \times 7$

CONNECT

In how many ways sangeeta aarti pooja mona and payal can stand in a queue?

A. 120

B. 5

C. 20

D. 150

CONNECT

Length and breadth of a rectangle are directly proportional.

If length increases from 6 cm to 21 cm and if breadth now is 14 cm, then, what was the breadth before any change in length occurred?

A. 4 cm
B. 1.5cm
C. 2cm
D. 3cm

CONNECT