QUANTITATIVE ABILITY

LTIMindtree

Choose the correct option.

What is the value of $(\log_4 2 + \log_4 32)$?

Options

2

3

4

5

Choose the correct option.

If we permute 5 letters of the word 'MANGO', how many permuted words can be made with 'N' in the second place?

Options

5

6

12

24

SHL

13 : 05

Choose the correct option.

How many six-digit numbers can be formed from 0, 1, 5, 6, 7 and 8 in which the first digit is not 0?

Note: Repetition is not allowed.

Options

120

600

720

800

LTIMindtree

14 : 48

Choose the correct option.

If $\log_x(1/343) = -3$, then what is the value of x?

Options

3

7

-7

-3

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Choose the correct option.

Which number should be divided by $(0.81)^{1/2}$ to arrive at a result of 81?

Options

9

81

72.9

0.9

SHL

11 : 31

Choose the correct option.

Aaron travels the first half of the distance at 50 miles/s and the second half at 75 miles/s. He travels a total distance of 3 miles. Find his average travel speed.

Options

60 mph

62.5 mph

55 mph

65 mph

LTIMindtree

11 : 29

Choose the correct option.

A salesperson sells a hair dryer at his store for a price between $300 and $700. The profit earned by selling the hair dryer for $650 is twice the loss incurred when it is sold for $350. What is the cost price of the hair dryer?

Options

$550

$450

$350

$150

SHL

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Choose the correct option.

Eduardo offers to sell his house for $18,400. If he charges 10% less, he will make a profit of 20%. What is the actual cost of the house?

Options

$15,800

$14,500

$13,800

$12,500

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Choose the correct option.

A train 'A' starts from 'X' at 0500 hours at a speed of 45 mph. Another train 'B' starts from the same place in the same direction at 0700 hours at a speed of 60 mph. At what time will both the trains meet each other?

Options

1100 hours

1400 hours

1200 hours

1300 hours

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13 : 20

Choose the correct option.

How many five-digit odd numbers can be made from numbers 1, 2, 3, 4 and 5?

Note: Repetition is not allowed.

Options

24

32

64

72

Choose the correct option.

Options

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

0

2

5

10

LTIMindtree

13 : 37

Fill in the blank(s) with the appropriate option.

log 3600 can also be expressed as _____.

Options

(2 log 6) + 1

(6 log 2) + 1

(2 log 6) + 2

(6 log 2) + 2

Choose the correct option.

Options

In a poultry farm, 50 hens lay 200 eggs in 2 days. In how many days will 20 hens lay 400 eggs?

15 days

10 days

5 days

8 days

Choose the correct option.

Options

Evaluate: $(4.56^3 + 5.44^3) / (4.56^2 - 4.56 \times 5.44 + 5.44^2)$

0.88

-0.88

1

10

LTIMindtree

Choose the correct option.

Options

In how many ways can 8 different types of flowers be strung to form a garland so that 4 particular types of flowers are never separated?

960

2,880

288

576

LTIMindtree

09 : 18

Choose the correct option.

How many four-digit numbers can be made using 1, 2, 3, 4, 5, 6 and 7 with none of the digits being repeated?

Options

7!

840

4!

42

LTIMindtree

08 : 35

Choose the correct option.

Options

Max has to guess which hand holds a coin. What is the probability that he correctly guesses three times in a row?

(1/6)

(1/2)

(1/4)

(1/8)

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07 : 53

Choose the correct option.

In a mall, a token is given while personal belongings are deposited at the entrance. The tokens are lettered as a, b, c, ..., z, which are given by the security guard at random. What is the probability that the token given to a person is a consonant?

Options

5/21

21/26

5/26

26/21

LTIMindtree

07 : 11

Choose the correct option.

What is the sum of two consecutive numbers, the difference of whose squares is 19?

Options

9

10

18

19

LTIMindtree

Choose the correct option.

A train 'A' starts from 'X' at 0500 hours at a speed of 45 mph. Another train 'B' starts from the same place in the same direction at 0700 hours at a speed of 60 mph. At what time will both the trains meet each other?

Options

1100 hours

1400 hours

1200 hours

1300 hours

LTIMindtree

05 : 00

Fill in the blank(s) with the appropriate option.

The list price of a camera is $300. If two successive discounts of 15% and 10% are allowed, its selling price will be _____.

Options

$229.50

$231.50

$232.50

$234.50

LTIMindtree

Choose the correct option.

Options

Two varieties of coffee worth $14 per lb and $15 per lb are mixed with a third variety in the ratio 1:1:2. If the mixture is worth $17 per lb, what is the price of the third variety per lb?

$18.83

$18.89

$19.5

$20

Choose the correct option.

01 : 44

Identify the greatest among the given values of x.

A. $x = 22^{22}$

B. $x = 2^{222}$

C. $x = 222^{2}$

Options

A

B

C

Cannot be determined

SHL

LTIMindtree

07 : 54

Choose the correct option.

John, Dylan and Mathew are eligible to be the captain of the rugby team. Lucas, Gabriel, Samuel and Christopher are eligible to be the co-captain. In how many ways can a captain and a co-captain be chosen?

Options

12

7

9

16

LTIMindtree

Choose the correct option.

In a poultry farm, 50 hens lay 200 eggs in 2 days. In how many days will 20 hens lay 400 eggs?

Options

15 days

10 days

5 days

8 days

LTIMindtree

Choose the correct option.

5 paramedics and 4 technicians are registered for a rescue team. In how many possible combinations can a rescue team of a paramedic and a technician be formed?

Options

9

40

20

18

LTIMindtree

Choose the correct option.

If two unbiased dice are thrown simultaneously, what is the probability of getting 4 at least once in a single throw of the two dice?

Options

1/6

1/9

7/36

11/36

LTIMindtree

Choose the correct option.

The causes of productivity loss are to be written around a circle in the annual report. In how many ways can an analyst write them around the circle, if the number of causes are 5?

Options

- $5!$
- ${}^5C_5$
- ${}^5P_5$
- $4!$
- ${}^4C_4$

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Choose the correct option.

'A' started a business with $270,000 and 'B' joined him three months later. How much money did 'B' invest if the profit share of 'A' at the end of the year was 3/5 of the total profit?

Options

$280,000

$100,000

$270,000

$240,000

Choose the correct option.

Caleb, Gavin and Carter have to board a train. The probabilities of Caleb, Gavin and Carter boarding the train are 1/2, 3/4 and 2/5 respectively. What is the probability that only one of them will be able to board the train?

Options

9/40

3/40

7/20

1/20

SHL

09 : 05

Choose the correct option.

Doris and Gloria randomly choose a color from red, orange, and yellow. What is the probability that both choose orange?

Options

(1/3)

(1/6)

(1/9)

(2/3)