

E-LITMUS

Find the no. of ways you can fill a 3*3 grid(with 4 corners defined as a,b,c,d)if you have 3 white marbles,6 black marbles

P X B
* W Y A

O A Z O
O N X W -
O X N P - -

O A N Z N O

FIND OUT THE VALUE OF LETTERS USED IN THIS.

find the number of terms between 100 to 1000 in the format like 234

$2*3*4=24$ find the number of term whose multiple is 24

A B C
x D E

F E C
D E C

H G B C

New public school have a circular layout.the school has teachers specializing in various subjects.

All classroom of the school are equally spaced apart and located along its perimeter.Each Teacher needs

four classes in day.there is strange rule.the first and last class has to be in the same class room.the

other two classes have to be at two other distinct class rooms.

Answer the following

a:) Bharti is a history teacher.in addition to above rule of the school she teaches exactly one pair of successive classes in adjacent classrooms.how many distinct trips to classes rooms are possible for Bharti if there are 12 classroom in school.

- 1;) 120
- 2;) 96
- 3;) 576
- 4;) 496

b:) Ram is a Math Teacher.he never teaches two successive classes in adjacent classrooms.how many distinct trip to classroom are possible for ram if there are 9 classroom in the school.

- 1:) 72
- 2:) 324

3:) 30

4:) 180

Sajeed and Majeed are gamblers. They love talking about final team ranking in cricket tournament. LPI cricket tournament is their favorite.

A total of five teams are participating in this year LPI (A, B, C, D, E). Before the tournament begins, Sajeed and Majeed guess the result.

According to Sajeed, ranking will be A, B, C, D, E where according to Majeed, their ranking will be D, A, E, C, B. At the end of the tournament, it turns out

that Sajeed had not predicted even a single rank correctly nor he had predicted correct ordering of any pair of consecutive teams. On the other hand

Majeed had predicted ranking of two teams correctly and he had also predicted ordering of two pairs of consecutive teams.

Answer the following question

(a) : Which Team Won LPI tournament this year

1:) A

2:) B

3:) E

4:) None Of These

(b) : Which team was ranked one behind team B

1:) A

2:) C

3:) D

4:) None Of These

What is remainder when 128^{1000} is divided by 153..?

Given a, b, c are in GP and $a < b < c$.

Calculate how many solutions exist for this inequality

$(\log(a) + \log(b) + \log(c)) = 6..?$

What will be the remainder when expression

$2^2 + 22^2 + 222^2 + 2222^2 + \dots + 22222 \dots 48 \text{ times } ^2$ divided by 9.

You are given a number $Q < 200$. You have to calculate sum of all Q such that when Q divided by 5 or 7 gives remainder 2?

You are given number N . Give $2 \cdot N$ has 28 factors and $3 \cdot N$ has 30 factors. Calculate how many factors will be in $6 \cdot N..?$

Pt Usha and Shelly John decide to run a marathon between Ramnagar and Jamnagar. Both start from Ramnagar at 1 pm. On the way are two towns: Ramgarh and Rampur separated by a distance of 15 km. Pt Usha reaches Ramgarh in 90 minutes running at a constant speed of 40 km/hr. She takes additional 30 minutes to reach Rampur. Between Rampur and Jamnagar she maintains an average speed of v km/hr. Shelly John, being a professional marathon runner, maintains a constant speed of 18 km/hr. They both reach Jamnagar together after n hours. What could be the total time taken by Pt Usha.

a: 5 hours

b: 15 hours

c: 41 hours

d: all of the above.

Heinz produces tomato puree by boiling tomato juice. The tomato puree has only 20% water while tomato juice has 90% water. How many liters of tomato puree will be obtained from 20

liters of tomato juice?

options:

a) 2, b)2.4 c)2.5 d) 6 liters.

AGE

* OAT

SOAR

HOG-

GOTO--

GECOIR

i want to know the procedure to solve this type of questions.

A multiplication is given below where each letter stands for a single digit number and no two numbers are represented by same letter

AGE

* OAT

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1. WHAT IS THE POSSIBLE VALUE OF A?

a)3

b)4

c)7

d)9

2. WHAT IS THE VALUE OF G+A+T+E????

a.16

b.19.

c.24

d.25

3. What is the correlation between S,I,T

a)they are in A.P

b)they are in G.P

c)both (a) and (b)

d)none of these

a quadrilateral PQRS circumscribes a circle with centre o,it is given that PQ is parallel to RS.Also length of PQ is thrice that of RS while length of QR and PS are equal.however QR and SP are not parallel to each other.the perimeter of the quadrilateral is equal to the perimeter of a square with area 36sq.m,what is the area of the quadrilateral PQRS in sqm(approx)??

why

* nut

oonp

oypy

ouha

onpop

each letters have digits from 0-9 find the nos?

why
nut

o o n p
o y p y
o u h a

o n e p o p

find the digits of each letters from
0-9. Each letter stand for each number in the above multiplication?

how many six digit numbers can be formed using the digits 0 to 5, without repetition such that the number is divisible by the digit at its units place?

O T O
* H A S

T I C O
C H C K
C L A I

C O O K O O

HOT*RED= ?

If m and n are two positive integers, then what is the value of mn?

- (1) $7m + 5n = 29$
(2) $m + n = 5$

If $A = \tan 6^\circ \tan 42^\circ$
and $B = \cot 66^\circ \cot 78^\circ$
then

(a) $A = 2B$ (b)

1

AB

3

=

(c) $A = B$ (d) $3A = 2B$.

in a strange twist of hearts, p politicians of a country agreed to an average donation of rs. D each. Q of these politicians, who had pledged an average of rs. A never donated the pledged money. which of the following expressions represents the percent of the pledged money that was actually donated

- a) $100(QA/PD)$
b) $100(PD/QA)$
c) $100 - 100(QA/PD)$
d) $100PD - 100(QA/PD)$

what is the value of $\log(e(e(e\dots)^{1/2})^{1/2})^{1/2}$?

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

how many values of c in the equation x^2-5x+c result in rational roots which are intergers

if $1/a + 1/b + 1/c = 1/(a+b+c)$ where $a+b+c \neq 0, abc \neq 0$ what is the value of $(a+b)(b+c)(c+a)$?

- a>equals 0
- b)greater than 0
- c)less than 0
- d)cannot be determined

PR is a tangent to a circle at point P.Q is another point on the circle such that PQ is the diameter and RQ cuts the circle at point M. If the radius of the circle is 4 units and PR=6 units then find the ratio of the perimeter of triangle PMR to the triangle PQR

- a)11/20
- b)3/5
- c)13/20
- d)18/25

the circle O having a diameter of 2cm, has a square inscribed in it.each side of the square is then taken as a diameter to form 4 smaller circles O'.find the total area of all four O' circles which is outside the cirle O.

- a)2
- b)pi-2
- c)2-pi/4
- d)2-pi/2

if v,w,x,y,z are non negative intergers each less than 11,then how many distinct combinations are possible of (v,w,x,y,z) satisfy $v(11^4) + w(11^3) + x(11^2) + y(11) + z = 151001$

in a certain examination paper there are n questions. For $j=1,2,3,\dots,n$, there are $2^{(n-1)}$ students who answered j or more question wrongly. if the total number of wrong answers is 4096 then the value of n is

- a)12
- b)11
- c)10
- d)9

how many six digit number can be formed using the digits 1 to 6, without repetition, such that the number is divisble by the digit at unit's place

6 Bangles each of 4cm in diameter, what is their minimum diameter of plate required so that each bangles are kept without overlapping (bangles touching each other)?

given $x=123456$ and $z=x-y$ then for how many values of y , z value found is divide by 48, 98, 105 ????

p, q, r are distinct single digit no, such that $(10p+q)^2=110r+q$ such that each side is greater than 310.. then what is the value of q ?

how many no can be formed using digits (1, 2, 3, 4, 5, 6, 7, 8, 9).. such that they are in increasing order (eg: 0 12345, 345, 6789, 123456789)???

three dices are thrown what is the probability to get at least one six?

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- a) 2
- b) $\pi - 2$
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