AMCAT PREVIOUSLY ASKED QUESTIONS

About 4 out 5 employee are right handed. then 40 employees are there how many of them are right handed?

1. 30 2. 40 3. 42 4. 32

Out of 5 employees 4 are right handed
Out of 40 employee, number of right handed = (4/5) * 40 = 32

If LCM and HCF of two numbers are equal and product of two numbers is 2916, find their LCM?

LCM and HCF will be equal if and only if both the numbers are equal.
therefore, 2916=54*54
so LCM of both number =54

If WORD is coded as 9753, then how DOOR will be coded?

DOOR => 3775

OR

WORD=23,15,18,4 =>2+3,1+5,1+8,2+2 => 5,6,9,4 => 5+4,6+1,9-4,4-1 =>9,7,5,3

DOOR=>4,15,15,18 => 4,1+5,1+5,1+8 => 4,6,6,9 =>4+4,6+1,6-4,9-1=>8,7,2,8

8, 12, 24, 60, ...

a) 120
b) 108
c) 142
d) 168

8+4=12
12+12=24
24+36=60
60+108=168

What is the next number of the following sequence

79,64,26,15,?

a) 9

b) 6

c) 10

d) 8

79 => 7*9+1=64

64 => 6*4+2=26

26 => 2*6+3=15

15 => 1*5+4= 9

G3S : J3P :: L4X : ?

(a)P3Y
(B)O3T
(C) P4T
(D)Q4S

ANS IS (C)

G 3 S:: J 3 P(G-J= +3, 3 SAME, S-P= -3)
L 4 X:: P 4 T (L-J= +4, 4 SAME, X-T= -4)

A train traveling at 250 Km/h overtakes a cyclist who is moving at 10km/h in 45 seconds. Find the length of train in meters?

A) 3000m B) 5400m

C) 6000m D) 10800m

uniform speed= (25010)km/h=240km/h=240*5/18 m/s

length of train= (45*240*5)/18=3000 m

Two workers A and B were employed for a work. A takes 8 hour more than the time taken by A and B together. If B takes 4.5 hours more than the time taken by A and B together, how long would A and B take together to complete the work?

7 hrs 6 hrs 5 hrs 4 hrs

Let work done by A+B in x days
then work done by A = x+8
and work done by B= x+4.5
rate 1/X= 1/(x+8)+1/(x+4.5)
solving this eq. we will get x=6hr.

A+B means A is greater then B

A-B means A is less then B

A=B means A is greater then equal to B

A*B means A is not equal to B

A/B means A is equal to B

Statements:

P/Q,Q+R,R=S

conclusions

1)P/R 2)P=Q

options:

a)only conclusion 1 is true

b)only conclusion 2 is true

c)neither conclusion 1 nor 2 is true

d)Both conclusions 1 and 2 are true.

The Tremors of earthquake were felt at intervals of 15 seconds. The first tremor was felt at 08:54:57 and last tremor was felt at 10:45:12. How many times were the tremors felt?
A) 484 B) 485 C) 441 D) 525

Considering that's 12 seconds
Total time gap in between =1hr 50min 15 seconds
60*60+50*60+15 seconds
=6615seconds/15
=441

Find the value of log1+log2+log3?

a)1

b)2

c)3

d)None of the above

Ans: d)None of the above

0+0.3010+0.4771 = 0.7781

what is the remainder when we divide 125! by 10^31

A) 4

B) 1

C) 0

D) 5

ANS IS (C)

The Probability of finishing a test on time by A is 1/2,B is 2/3 and by C is 3/5.If all of them write the test independently , then what is the probability that just two of them are able to write the test on time.
a)1/2 b)3/10 c)13/30 d)1/3

Ans:13/30

Two of them means AB(C~)+(~A)BC+A(~B)C
(1/2)(2/3)(2/5) + (1/2)(2/3)(3/5) +(1/2)(1/3)(3/5)
=13/30

Three cards are drawn at random from a pack of 52 cards. one is jack and one is queen and one is king

A. 3/52

B. 3^4/52C3

C. 4C1/52C3

D. (4C1)^3/52C3

ANS IS (D)

16, 136, 1096, ?

16*8+8=136

136*8+8=1096

1096*8+8=8776

25,168, ? , 8176

25*7-7 is 168.
168*7-7is1169
1169*7-7 is 8176
So 1169 is the answer

If all 6 are replaced by 9,the algebraic sum of all numbers from 1 to 100 (both inclusive)varies by,

a) 980 b)330 c)660 d)990

ANS IS (b)

first take the numbers which have 6 in their unit place - 06,16,26,36,46,56,66,76,86,96.
if all 6 in unit plce is replaced with 9 then in each case the increment would be 3.
so for all ten numbers total increment is 10*3=30.

then take all numbers which have 6 in their tenth place - 60,61,62,63,64,65,66,67,68,69
in each case if we replace 6 with 9 -90,91,92,93,94,95,96,97,98,99
then there is increment of 30 in each case .
so total increment for ten numbers is 10*30==300.
so the total increment including unit and tenth place is 30+300=330.

Five different roads join a village to the nearby city. The number of different ways in which person can go to the town and back is ?
a)5 b)10 c)25 d)20

ANS IS (C)

If nC5=nC6, what is the value of n?

a)9

b)10

c)8

d)11

ANS IS (D)

Varun is guessing which of the 2 hands holds a coin. what is the probability that Varun guesses correctly three times in a row?

a. 1/6 b. 1/2 c. 1/4 d. 1/8

ANS IS (d)

A goods train travels a station at a certain time and at fixed speed. after 6hrs another train leaves the same station and move in same direction of uniform speed of 90kmph. the train catches up the good train in 4hrs. find the speed of the good train.

let the speed of goods train be x
distance covered by goods train in 10hrs (4+6)= dist covered by other train 4 hrs
10x=4*90
x=36kmph

The value of 6^-2 is?

a) -1/36

b)36

c)-36

d)None

ANS IS (d)

Steward assign 1/8th of his monthly salary for food. His total food bill for the month is rs.6500.what is stewards yearly salary?

a)rs. 9,750 b)rs. 12,174

c)rs.5,76,000 d)rs.6,24,000

Ans is 624000

let steward monthly salary=x

1/8*x=6500=>x=6500*8=52000(total 1 month salary),but given there his yearly salary=12*52000=624000

The sum of three consecutive numbers of 4 digits A,B,C and D are 4613,4961,5010 and 5099, then what is the largest number among A,B,C,D?

$$A+B+C = 4613$$
$$B+C+D = 4961$$
$$C+D+A = 5010$$
$$D+B+A = 5099$$

add four eqns

$$3(A+B+C+D) = 19683$$
$$\Rightarrow A+B+C+D = 6561$$

so, largest no. = $(A+B+C+D) - (A+B+C) = 6561 - 4613 = 1948$

Megha drives along the perimeter of square field of side 10 kms. She drives along the first side at 10 kmph, along the second side at 20 kmph, along the third side at 30 kmph and along the fourth side at 40 kmph. Her average speed is

avg speed = total distance / total time

= 4d / (d/10 + d/20 + d/30 + d/40)

= 4 / (1/10 + 1/20 + 1/30 + 1/40)

= 4 * 120/25

= 19.2 km/h

A,B and C together can complete a work in 8 days. All the 3 started the work together but C quit after 2 days. If the remaining work is now completed by A and B in 9 days, then how many days will C alone will take to complete the total work?

a+b+c=8 days , 1 days = 1/8

c =2 days , 1 day = 1/2

then, remaining work of a+b= 1/8-1/2= 3/8

so , 9 days work = 9* 8/3=24 days

A large rubber cushion can be filled with air pump in 10 minutes, another pump can fill the same cushion in 12 min. If both the pumps operate together how long will it take to fill the cushion ?

ANS : 5 5/11 minutes

1 minute filling by both=(1/10)+(1/12)=11/60

So time taken to completely fill=60/11

=5 & 5/11 minutes

Consider the sum of first 70 natural numbers. If every digit 6 is replaced by 8 then what would be the net increase and the new sum?

The sum of first 70 natural numbers 70(70+1)/2 =2485

6,16,26,36,46,56 are replaced by 8,18,28,38,48,58 and

66 is replace by 88

and 60,61,62,63,64,65,67,68,69 are replaced by 80.....89

hence for unit digits = 6*2=12

and for 66 change in 88 then = 22

tens digit = 9*20=180

net increase is 180+12+22 =214

new sum is 214+2485=2699

Four persons can cross a bridge in 3,7,13,17 minutes. Only two can cross at a time. Find the minimum time taken by the four to cross the bridge?
a)10 b)106 c)34 d)20

Ans: 20 minutes

First send 17 and 7. After 7 minutes, 7 is at finish and 17 needs 10 more minutes to complete his travel. now send 13. After 10 minutes 17 reaches finish and 13 needs 3 more minutes to complete. now send 3. both 3 and 13 reach destination at the same time after 3 minutes. hence the time taken is 7+10+3=20 minutes..

If mini download three more songs in her mobile. She will have songs with 512MB in her mobile. If on an average each song is 4 MB, how many songs did she initially have in her phone before downloading?

ANS 125 Songs

Total song after downloading 3 songs = 512/4=128 songs
Total songs before downloading 3 more songs= 128-3=125

sum of the digits of a 3 digit number is subtracted from the number .the resulting number is divisible by ____

three digit no. be=100x+10y+z
sum of the digits of a 3 digit no.= x+y+z
resulting no.= (100x+10y+z)-(x+y+z)= 99x+9y

so it is divisible by 9

Manu has invested 30% of the capital in Petrobonds and rest in Lic plan. He has invested Rs.34000 more in Lic plan than in Petrobonds. How much is the total investment made by Manu?

70% of x=34000+30% of x

so, x=85000

Ravi has a bag full of 10 Nestle & 5 Cadbury chocolates. Out of these, he draws two chocolates. What is the probability that he would get at least one Nestle Chocolate ?

1) 19/21 2) 3/7

3) 2/21 4) 1/3

Total number sample space two chocolates can be drawn in the way of = 15C2 = 105

At least one to be nestle=10C1 X5C1 + 10C2 X 5C0=95

P(E) = 95/105 = 19/21

A supplier supplies cartridges to a news paper publishing house. He earns a profit of 20% by selling cartridges for Rs. 540. Find the cost price of the Cartridges ?

1) Rs. 500
2) Rs. 480
3) Rs. 450
4) Rs. 400

Cost price= 540*(100/120)=450

A trend was observed in the growth of population in Saya Islands. The population tripled every month. Initially the population of Saya Islands was 100. what would be population after 4 months ?

a) 100*4^3 b) 100*3^4

c) 100*3*4 d) (100^3)^4

answer is (b)

[{ { (100*3)*3 }*3 } *3]=100 *3^4

The speeds of two trains are in the ratio 5:3.If the speed of the first train is 350km 2hours.Then the speed of second train is?

Speeds of two trains is 5x ,3x.

Speed of 1^{st} train = 5x = 350/2

x=35

Speed of 2^{nd} train = 3x = 35*3=105

Ram sold his car for RS.50,000 less than what he bought it for and lost 8%. At what price should she have sold the car, if she wanted to gain as much as she lost in the first transaction?

1) Rs.6,25,000
2) Rs.6,37,500
3) Rs.6,50,000
4) Rs.6,75,000
5) Rs.7,00,000

8%--------50,000

108%-------?(Gain as much as he lost means 8% profit)

(50,000*108)/8=675000

Divide the sum of 3/5 and 8/11 by their difference.

a, 7/73

b, 73/7

c, 11/15

d, None

ANS is 73/7

What is the smallest number, which when divided by 7,18,56 and 36, leaves a remainder 0?

a, 390

b, 392

c, 504

d, 1012

Answer is (C)

T he difference of two numbers is 8 and the difference of their squares is 160. Find the numbers?

Answer is 14 and 6

The total number of numbers that are divisible by 2 or 3 between 100 and 200(inclusive) are

Answer is 67

What is the max possible 3 digit prime number?

Ans is 997

A cube painted red on 2 adjacent faces &black on the faces opposite to the red faces & green on the remaining faces is cut into 64 smaller cubes of equal size. How many cubes are there which have no face painted?

Since all faces are painted, only small cubes which are in the middle of cube will have no color painted.
Total smaller cubes=64
Small cubes which are atleast 1 side is coloured
= top(16 cubes)+ bottom(16 cubes)+ both sides(16 cubes)+ both sides adjacent to previous sides(8 cubes)=16+16+16+8=56
so cubes with no paint=64-56=8
answer is 8 cubes

(11111011)2= ( )8

(373)8

group 3 binary digits together and write its equivalent octal form

If the 4 numbers are arranged in all possible orders then how many solutions are possible.

The answer be 4! = 24 ways

In town of 500 people, 285 read Hindu and 212 read Indian express and 127 read Times of India 20 read Hindu and times of India and 29 read hindu and Indian express and 35 read times of India and Indian express. 50 read no news paper. Then how many read only one paper?

Ans: 45

(11100111)2 = ( )16

Ans: (E7)16

$(512)^{1/3}-(125)^{1/3}$

a. 129

b. 13

c. 40

d. 3

Answer is (d)

7:11::31: ?

Op 1: 33

Op 2: 37

Op 3: 39

Op 4: 42

ANS IS 37

From the given choices select the odd man out

Op 1: 11, 3, 3, 17

Op 2: 41, 5, 3, 47

Op 3: 71, 7, 3, 17

Op 4: 37, 14, 19, 7

Op 5: 67, 71, 3, 5

ANS IS Op 4

A = 11 * 22 * 33 * 44 * 55 * ……..1010.

How many zeroes will be there at the end of A ?

Op 1: 6

Op 2: 15

Op 3: 10

Op 4: None of these

No. of 0's = 2

Op 4: None of these

The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is:

Op 1: 1

Op 2: 2

Op 3: 3

Op 4: 4

Answer is 2

Let the numbers 13a and 13b.
Then, 13a x 13b = 2028
=>ab = 12.
Now, the co-primes with product 12 are (1, 12) and (3, 4).
[Note: Two integers a and b are said to be coprime or relatively prime if they have no common positive factor other than 1 or, equivalently, if their greatest common divisor is 1]
So, the required numbers are (13 x 1, 13 x 12) and (13 x 3, 13 x 4).
Clearly, there are 2 such pairs.

A man walks 9 km east and take right walk 4 km and again he take right 6 km. How far he from starting point?

ANS IS 5 KM

A man pointing to that lady and said “she is the mother of the husband of my mother”. How man related to that woman

1) Grand Mother
2)Mother
3)Aunt
4)Sister

Grand Mother

24:50::102:??

ans is 206

24*2+2=50

so 102*2+2=206

In how many ways can 4 ladies and 4 men form two mixed doubles teams for a tennis match?

Op 1: 72

Op 2: 108

Op 3: 36

Op 4: 84

4C2 * 4C2 = 6*6 = 36

What is the value of:
(33*812*20)/95 ?
Op 1: 0
Op 2: 3
Op 3: 1/3
Op 4: None of these

ANS IS Op 4

Log e^xy – log e^|x| equals to:

Op 1: loge x

Op 2: loge |x|

Op 3: - loge x

Op 4: none of these

ANS Op 4

If log x base 10000 = -1/4,
then x is given by
Op 1: 1/100
Op 2: 1/10
Op 3: 1/20
Op 4: none of these

ANS IS Op 2

Two trains A, B leave at 6.30am and 7.40am and travel at 30km/hr and 40 km/hr respectively. How many kms from A will the trains meet?

a) 100km
b) 35km
c) 150km
d) 140km

suppose they will meet after x hr.
30x=40(x-7/6) (Time gap between train A and B is 1hr 10min=7/6hr)
By solving x=14/3
they will meet at distance=30*14/3=140km

A college has 10 basketball players. A 5-member team and a captain will be selected out of these 10 players. How many different selections can be made

10C5x5c1

if the lcm of a and b, (a>b) is 667 the value of 7b-5a is

667=29*23 so a=29,b=23
7b-5a=7(23)-5(29)=16

What is the number of ways of expressing 3600 as a product of three ordered positive integers

3^2*5^2*2^4

(2+1)(2+1)(4+1)=45

3+2=2

4+2=5

5+2=10

then 6+2=?

ANS IS 17

The money at compound interest amount to thrice it self in 16 years. so, in how many years it will be 27 times itself ?

ans is 48

let us consider ci be rs.1
it will thrice itself in 16 years
after 16 years it will be rs.3
another after 16 years it will be 9
another after 16 years it will be 27

root over 1008 as a mixed surd = ?

√ 1008= √(2*2*2*2*3*3*7)
= 2*2*3 √ 7
=12 √ 7
so answer is 12√7

Given that the interest is only earned on principal, if an investment of Rs.1000 amount to Rs.1440 in two years, then what is the rate of interest earned?
a)20% b)22% c)21% d)11%

(1440/1000)=(1+r/100)^2
144/100=1+(r/100)^2+r/50
r^2+200r-4400=0
verify options a)20%
4000+400-4400=0
so ans is 20%

a show room offers a 10% discount on a microwave, whose marked price is rs.8000 and also gives a blender worth rs.1200 as a complimentary gift with it, even then the showroom earns a profit of 20%. Find the cost price of microwave

5000 is answer

10% dis so SP=7200

gift worth 1200 so now SP = 6000

CP +CP*20%=6000

CP=5000

a quiz has one multiple choice question with answer choices a, b and c and two true/false question. What is the probability of answering all the three questions correctly by guessing
a) 1/5 b)1/4 c)1/3 d)1/12

for multiple choice=1/3
for true/false =1/2
therefore
probability=1/3*1/2*1/2=1/12

a man sells 12 candies for rs12 and loses 2.50rs if he sells 12 candies for rs16 how much does he lose/ gain

a)gain rs 4

b)loses rs 6

c)gains rs 6.40

d)loses rs. 1.60

e)gains rs 1.60

12 candies= 12+2.50=14.50rs.

now the new s.p= 16 rs.

therefore definitely he gains rs 1.50 approximately.

(16-14.5)/14.5*100=approx (1.01)

hence he gains 1.60

what is the largest power of 20 contained in 100!?

a)56

b)1

c)24

d)2

ANS IS 24

A seller uses 900 gm in place of 1kg. Find his actual %profit or loss when he sells his articles at 5% loss on cost price?

cost of 1000gm=100 Rs

cost of 900gm=90 Rs

5% of 100 loss=5/100*100=5

he sell article at 95 Rs

profit =95-90=5

%profit=5*100/90=5*10/9=50/9=5.55 Not 5

a coin is tossed thrice. what is the probability that first toss of the coin lands head, second lands tail and third lands tail as well

ans is: 1/8

1/2*1/2*1l2

Rahul purchased 7 dvds each of which costs rs.17. he gave a five hundred rupee note to the shopkeeper then the amount returned to him is divisible by:

a) 3 b)7 c)9 d)11

ans =3

7*17=119

500-119=381

3+8+1=12 which is divisible by 3

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:

ans=2500

10000/4=2500

The time in the clock is 8:20. what is its mirror image?

A)3:20

B)3:40

C)2:25

D)4:20

subtract 8:20 from 12.00

3:40 is the answer

b)3:40

In a school, for a student out of 100 he got 74 of average for 7 subjects and he got 79 marks in the 8^{th} subject. what is the average of all the subject?
a)76.251 b)80.25 c)74.265 d)74.625

Avg. = ((74*7) + 79) / 8 = 74.625

215:474::537:?

a)26

b)27

c)25

d)22

sum of 215=2+1+5=8

474=15

537=15

26 will be answer as 2+6=8

8:15::15:8

Amrith told to Anand in front of a Photo that “He is the son of my father’s son”.Find who is in the picture if amrith have no brothers and sisters.

a)Amrith himself b)Amrith’s Uncle

c)Amrith’s Father d)Amrith’s son

OPTION D

(be)^2=mpb where b, e, m, p are distinct integers then find the value of m?

Ans is 3

19^2 = 361

Soha Ranks 5^{th} in the class. How many students are there in the class?

I) One of her friends got 40^{th} rank which is second last rank

II) Her rank is 17^{th} from the middle

Statement 1: "One of her friends got 40th rank which is second last rank"

Therefore total no of student is 40+1=41

Statement 2: "Her rank is 17^{th} from the middle"

1) Soha Ranks 5^{th} in the class

i.e. There is 4 student ahead of Soha .

2) Her rank is 17^{th} from the middle

i.e. There is 15 student between soha and middle student.

Total student on either side of middle student =15+4+1=20

A person is rock climbing at an altitude of 800 m. He go up by 7 mph. and come down by 9 mph. what was his average speed?

a) 7.875 mph
b) 7.125 mph
c) 7mph
d) 7.5 mph

Avg speed =(2*7*9)/(7+9)

= 7.875

Find average speed if a man travels at speed of 24kmph up and 36kmph down at an altitude of 200m?

a) 28.8 mph
b) 27.8 mph
c) 27.5mph
d) 30 mph

Average= 2xy/(x+y)

= 2*36*24/(36+24)

=28.8mph

A man jogs at 6 mph over a certain journey and walks over the same route at 4 mph. What is his average speed for the journey?

a) 2.4 mph
b) 4.8 mph
c) 4 mph
d) 5 mph

2*6*4/6+4=4.8mph

6 persons standing in queue with different age group, after two years their average age will be 43 and seventh person joined with them. Hence the current average age has become 45. Find the age of seventh person?

a) 43 b)69 c)52 d)31

current average age of 6 person = 43 -2 = 41
total age of 6 person = 41*6 = 246
after joined seventh person
average age of 7 person = 45
total age of 7 person = 45*7 =315
age of 7th person = 315 - 246 = 69 years ans.

Statement 1: P is the son of K's father.
Statement 2: P is the only grandson of N's father-in-law.
If K is the wife of N, how N is related to P.

(a) Statement 1 only
(b) Statement 2 only.
(c) Either statement 1 or 2.
(d) Both statement 1 and 2 together.
(e) Neither statement 1 nor 2

ans is (c)

Statement 1: The mother of K is M's mother-in-law.
Statement 2: K is the only child of M.
If K is the mother of L, how M is related to L?
(a) Statement 1 only
(b) Statement 2 only.
(c) Either statement 1 or 2.
(d) Both statement 1 and 2 together.
(e) Neither statement 1 nor 2

ans is (a)

11,29,55,....?

(a)110

(b)114

(c)89

(d)74

11=3^2+2

29=5^2+4

55=7^2+6

89=9^2+8

so ans is 89

A lady travels 5 km towards south, then 4 km towards east, then 8 km towards north and 2 km towards west. In what direction is she from starting point.

(a)North-east

(b)South -east

(c)South-west

(d)South

ans is (a)

In a certain language RIPPLE is written as 785514. What is the code of PILLER in that language?

(a) 561147
(b) 561174
(c) 581174
(d) 581147

ans is (d)

among five friends A,B,C,D,E who is the tallest?
(1) B is taller than A, but smaller than D & E.
(2) C is smaller than B.
(a) Statement 1 alone is sufficient
(b) Statement 2 alone is sufficient
(c) Both statement put together is sufficient
(d) Both statement put together is not sufficient
(e)Either of statement is sufficient in answering the question.

ans will be (d)

X says, point to Y, "He is my sister's only brother's son". How Y is related to X?

(a)Nephew

(b)Son

(c) Brother

(d)Uncle

ans can be (a) or (b)

10,14,23,39,64,...?

(a) 100

(b) 102

(c) 149

(d) 128

10+4(2^2)=14

14+9(3^2)=23

23+16(4^2)=39

39+25(5^2)=64

64+36(6^2)=100

2,3,6,18,108,...?

(a) 54

(b) 10002

(c) 216

(d) 1944

2*3=6

3*6=18

6*18=108

18*108=1944 Ans

3,7,13,21,...?

(a) 36

(b) 33

(c) 41

(d) 31

7-3=4

13-7=6

21-13=8

So next num will be 21+10=31

25,61,113,....?

(a) 181

(b) 121

(c) 212

(d) 241

3^2+4^2=9+16=25

5^2+6^2=25+36=61

7^2+8^2=49+64=113

9^2+10^2=81+100=181

84:134::38:?

(a)4

(b)78

(c)42

(d)88

84+50=134

38+50=88

ans (d)

10,15,22,33,46,63,.....?

(a) 81

(b) 82

(c) 72

(d) 86

Prime numbers

15-10=5

22-15=7

33-22=11

Similarly 63+19=82

If COMPUTER is coded as PMOCRETU, then what will TELEVISION will be coded:

(a) NOISIVELET

(b) VELTEONISI

(c) VELENOISTI

(d) VELETNOISI

ans is (d)

PROGRAM: QTRKWGT::APPLIANCE:

(a) BRSPNGUKO

(b) BRSQNGUKN

(c) BRSQNGUKU

(D) BRSPNGUKN

ans is (d)

Pointing to a boy, a man said, "He is the grandson of m daughter's grandmother". How is the man related to the boy?

(a) Father

(b) Grandmother

(c) Brother

(d) none of these

ans is (A)

POLICY : NPJJAZ :: INSURANCE :
(a) GOQVPBLDC
(b) GOQVQBLDC
(c) GOQVRBLDC
(d) GOQVPBLEC

ans is (a)

5:124::7:?

(A)342

(b) 343

ANS IS (a)

WINTER:RETNIW::
(a) RMMEUS:SUMMER
(b)SPRING:GNIRPS
(c) HEAVEN:NVEAEH
(d)KNIFE:EFNIK

ans is (b)

QDYM:SFYN::UIOZ:?

(a) PAQM

(B)LPWA

(c)QNLA

(d) WKPA

ans is (d)

BHE:FLI::JPM:?

(a) OTP

(b) NTQ

(c) NSP

(d) OSP

ANS IS (b)

A tourist has strayed from his path while on his way to his hotel. He moves 28 km towards south, then moves 20 km towards west, then 4 km towards north and then 2 km towards east to reach his hotel. What is the distance of shortest possible route?

(a) 45 km

(b) 20 km

(c) 18 km

(d) 30 km

AB=28km toward south

BC=20km toward west from B

CD=4km toward north from C

DE=2km toward east from D

EF=BC-DE=18km

AF=AB-CD=24km

in Triangle,AFE

AE=sqrt(24^2+18^2)=sqrt(900)=30km

B is the only daughter-in-law of A. M is the only grandson of A. P is M's father. How is P related to B?

ans: Husband

P is the son-in-law of S. T and Q are the children of P. M is the mother of T. How is M related to S?

(a)Daughter

(b)Son

(c)Mother

(d)Sister

ans is (a)

If NORMAL is coded as LAMRON, then SYSTEM is coded as

(B) METSYS

If BLACK is coded as DNCEM, then ORANGE is coded as:

(a) QTCPIG

odd man out(34444)

1. (a)FHKO (b)CEHL (c)ZBEJ (d)XZCG

2. (a)PRS (B)TVX (c)FIK (d)LME

3. (a)AE5 (b)DF6 (c)HN14 (D)KP18

4.(a)DFK (b)PRW (c)EGL (D)TVZ

5.(a) HKS (b)PTX (c)UVZ (d)TAO

odd man out(123424)

6.(a) QSV (b)CFK(c)PSX(d)RUZ

7.(a)AFK (b)TWB (c)PUZ (d)DIN

8.(a)KML (b)PRQ (C)NPQ (d) TVU

9.(a)FU (B)DW (c)CX (d)NR

10.(a)PSRQ (b)MNPO(c)SVUT (d)KNML

11.(a)HIKJ (b)KLNM (c)STVU (d)RSTU

B has a sister A, B is the daughter of C. C's father is P. How is A related to P?

Grandmother

pointing to a women in photograph, a lady said, "she is the wife of my mother's brother-in-law". how is the women related to lady?
(A) mother
(b) aunt
(c)sister
(d)daughter

ans is (b)

pointing to a boy in photograph, a girl said, "he is the son of the daughter-in-law of my mother's mother". how is girl related to the boy?

(a)son
(b)brother
(c)nephew
(d)cousin

ans is (d)

Pointing to a lady, a man said, "She is the wife of my father's only son". how is man related to lady?

ans is Husband

Pointing to a man in photograph, another man said, "He is the father of my daughter's son". How is the man related to:

ans is Son-in-law

If DEED is coded as 4554, then DICE is coded as
(a)4935 (b) 4839

4935

SKILLFUL coded as LTMJGMMV, how is STATED written in that code?

UTUBEF

If SHORT is coded as 87479, what is coded for TALKS?

90108

If EAGLE is coded as FZHKF, what is the code for THANKS

UGBMLR

If CABLE is coded as 64592, then LABLE is coded as

94592

How many 5 digit no. can be formed from 0,2,4,5 & 9 ?

2500

1800 * 25* 45^(-2) * 8, how many 2's power?

answer is 6.

In a game 3 cards from 52 cards as a player have a win deck a king, a queen, a jack. Total possible number of win deck ?

4C1*4C1*4C1 = 64

Three different containers contain 496 litres, 403 litres and 713 litres of mixtures of milk and water respectively. What biggest measure can measure all the different quantities exactly ?

Required measurement = (H.C.F. of 496, 403, 713) litres = 31 litres

The number of possible selections of one or more questions from 8 given questions, each question having an alternative, is

2^8-1

In an examination 10 questions are to be answered choosing at least 4 from each of part A and part B.
If there are 6 questions in part A and 7 in part B, in how many ways can 10 questions be answered ?

6c4*7c6+6c5*7c5+6c6*7c4

If SWIMMING is coded as NGMMISWI, which word coded as MAXIMIZE?

ZEIMIMAX

If a and b are natural numbers and a-b is divisible by 3, then a^3-b^3 is divisible by:

Op 1: 3 but not by 9

Op 2: 9

Op 3: 6

Op 4: 27

Op 5: Both 3 and 9

Let's assume value a=6 & b=3.So after subtraction it gives 3. After putting on equation a^3-b^3so it is divisible by both 3&9

Ishan spent 35,645 on buying a bike, 24,355 on buying a television ,and the remaining 20% of the total amount he had as cash with him. what was the total amount ?

Her we come that 20% of total amount is in cash
so remaining 80% was used for both bike and television
=35645+24355=60,000
let total amount= x
so 80%x=60,000
=>80*x/100=60,000
x=60,000*100/80=75,000
total amount=75,000

Manoj sold an article for 15,000. Had he offered a discount of 10 % on the selling price, he would have earned a profit of 8 %. what is the c.p ?

12500 rs.

If cost price=x, then
x*(108/100)=15000*(90/100), x=12500

If f(x) = sum of all the digits of x, where x is a natural number, then what is the value of

f(101)+f(102)+f(103)+ ..... +f(200)

A polygon has 44 diagonals, the number of its sides is

POLYGON HAS 11 SIDES

$44 = N(N-3)/2$

$N^2-3N-88 = 0$

$(N-11)(N+8) = 0$

$(N-11)=0$

$N = 11$

A bag contains 5 yellow and 4 brown pencils. If two pencils are drawn, what is the probability that the pencils are of the same colour?

(5c2+4c2)/9c2=4/9

Log 0.2 to the base 5 is equal to

Now log a^b = b*log a. And log(a) a = 1

log(5) 0.2

=> log (5) [1/5]

=> log (5) [5^-1]

=> -1* log(5) 5

=> -1*1

=> -1

Sujitha invests 7% i.e. 2170, of her monthly salary in mutual funds. Later she invests 18% of her monthly salary in recurring deposits, also she invests 6% of her salary on nsc's . what is the total annual income invested by sujitha ?

let x is the monthly salary,

so, x.7%=2170
x=31000.

now according to ques.
18% of 31000=5580 and 6%of 31000=1860

now add all invests i.e, 2170+5580+1860=9610

What is the value of log3 1.5 + log3 6 ?

log3 1.5+ log3 6
=log3(1.5*6)
=log9
=log3^2
=2*log3 3
=2 ans

If x^4 + 1/x^4 = 47, then find the value of x^3 + 1/x^3?

op 1: 18 op 2: 27 op 3: 9 op 4: 12

Lets add 2 two both sides of the equation
x^4+1/x^4 + 2 = 47+2
(x^2 + 1/x^2)^2 = 49 = x^4+1/x^4 + 2)

x^2 + 1/x^2 = (49)^1/2
x^2 + 1/x^2 = 7

Now that we know x^2 + 1/x^2, you need to know that (x^2 + 1/x^2)^3 is the same as x^6 + 1/x^6 + 3x^2 + 3/x^2

x^6 + 1/x^6 + 3(x^2 + 1/x^2) = (7)^3
x^6 + 1/x^6 + 3*7 = 343
x^6 + 1/x^6 = 343 - 3*7
x^6 + 1/x^6 = 322

Now we need to now that (x^3 + 1/x^3)^2 is the same as x^6 + 1/x^6 + 2
x^6 + 1/x^6 = 322
x^6 + 1/x^6 + 2 = 322+2
(x^3 + 1/x^3)^2 = 324
(x^3 + 1/x^3)^2 = (18)^2
x^3 + 1/x^3 = 18

So we have all the answers:
x^2 + 1/x^2 = 7
x^6 + 1/x^6 = 322
x^3 + 1/x^3 = 18

If 2+2 = 6 then 1+3 = ?

two+two=6,

And

one+three=8 counting the no. of literals

In approximately how many years will a certain sum of money triple itself at 22% simple interest?

let principal amount = p
after T years compound amount, A=3p
so, interest I = 2p
we know that
I= (p*T*R)/100
so, 2*p=(p*T*22)/100
T=100/11 years

When a local train travels at a speed of 60kmph, it reaches the destination on time. When the same train travels at speed of 50kmph, it reaches its destination 15 minutes late. What is the length of journey?

distance is constant.
so let time taken be t when it travels with 60kmph
let time be t' when it travels with 50kmph
d=s*t and
s*t=s'*t'
60*t=50*(t+15/60)(in hrs)
on solving
t=5/4 hrs
d=60*5/4 = 75km

A fair is coin is tossed repeatedly .If head appears on first four tosses then what is the probability of appearance of tail in the fifth toss.

A number of cats got together and decided to kill between 999919 mice. Every cat killed an equal number of mice. Each cat killed more mice than there were cats .How many cats do you think there were?

let no of cats be x
hence no of mice each cat kills= 999919/x
999919/x>x (as they kill more than there are cats)
=> 999919>(x^2)
= 999.95>x (approx)
hence the no of cats should be less than 999.95 and divisible by 999919 so 991 is the nearest no which is divisible by 999919 n less than 999.95.
therefore, **no of cats are 991.**

If log x = log 3 + 2 log 2- (3/4) log 16. The value of x is:

Log x = log (12/8)
X=3/2

Which is the closest approximation to the product 0.3333 x 0.25 x 0.499 x 0.125 x 24 ?

1/8 (approx)

5 men or 2 women can do a work in 5 days in how many days can 6 men and 2 women can do the same work

Answer: 25/11

5 men can do a work in 5 days
2 women can do same work in 5 days
this means effort of 2 women = 5 men

now we have 6 men and 2 women working together to finish same work.
6 men + 2 women effort = 6 men + 5 men effort = 11 men effort

5 men can do the work in 5 days
1 men can do the same work in 5*5= 25 days
11 men can do the same work in 25/11 days

If EDUCATION is coded with 5 then NATIONAL is

4