

Quantitative Aptitude Interview Questions And Answers Guide.



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Quantitative Aptitude Job Interview Preparation Guide.

Question # 1

36 people $\{a_1, a_2, \dots, a_{36}\}$ meet and shake hands in a circular fashion. In other words, there are totally 36 handshakes involving the pairs, $\{a_1, a_2\}, \{a_2, a_3\}, \dots, \{a_{35}, a_{36}\}, \{a_{36}, a_1\}$. Find the size of the smallest set of people such that the rest have shaken hands with at least one person in the set?

Answer:-

For at least one person & for exactly one person $=36/3$

For at least two person & for exactly two person $=36/2$

so

ans is $36/3 = 12$

if question is asked lyk no "cycle" then $n-1$.

i.e. $36-1$

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Question # 2

Explain series: 2,7,24,77,.

Answer:-

Ans is:

$$2*3+1=7$$

$$7*3+3=24$$

$$24*3+5=77$$

$$77*3+7=238$$

Therefore ans is 238

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Question # 3

A circular dart board of radius 1 foot is at a distance of 20 feet from you. You throw a dart at it and it hits the dartboard at some point X in the circle. What is the probability that X is closer to the center of the circle than the periphery?

Answer:-

$1/4$

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Question # 4

Two pencils costs 8 cents, then 5 pencils cost how much ?

Answer:-

2 pencils cost = 8

5 pencils cost = ?

cross multiply

$$8*5/2 = 40 / 2 = 20$$

so 20 is price of 5 pencils

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Question # 5

a 100100011

b 000110010

c 100000110

then find $a-(b \cup c)$ or $a \cap (b-c)$?

Answer:-

$(b \cup c) = 100110110$

(i) we know that $(a-b) = a \cap (b-c)$

therefor $a-(b \cup c) = a \cap (b \cup c)$



(buc)'=011001001
 a intersection (buc)'=00000001=a-(buc)
 (ii)similarly au(b-c)=100110011

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Question # 6

1.If $g(0)=g(1)=1$
 And $g(n)=g(n-1)+g(n-2)$ find $g(6)$;

Answer:-

Given $g(0) = g(1) = 1$.
 To find: $g(6)$
 $g(n) = g(n-1) + g(n-2)$
 $g(2) = g(1) + g(0) = 1 + 1 = 2$
 $g(3) = g(2) + g(1) = 2 + 1 = 3$
 $g(4) = g(3) + g(2) = 3 + 2 = 5$
 $g(5) = g(4) + g(3) = 5 + 3 = 8$
 $g(6) = g(5) + g(4) = 8 + 5 = 13$.

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Question # 7

A ship started from port and moving with I miles per hour and another ship started from L and moving with H miles per hour. At which place these two ships meet?
 |----|----|----|----|----|----| port G H I J K L

Answer:-

Well ship A moves at 2blks per hr and ship B moves at 4 blks per hr..assuming they move towards each we should have the answer between h and i. Lets take one hr time, ship A will be at I and B at H, it means they have already met so just moving them both back we will have their meeting between H&I.

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Question # 8

If A,B,C are the mechanism used seperately to reduce the wastage of the fuel by 30%, 40%, 10% What will be the fuel economy if they were used Combined?
 A. 68.4
 B. 62.2
 C. 58
 D. 27

Answer:-

Let each mechanism solution is 100 litre.
 In "A" mechanism, wastage is $(100-30)/100 = 70\%$
 In "B" mechanism, wastage is $(100-40)/100 = 60\%$
 In "C" mechanism, wastage is $(100-10)/100 = 90\%$
 If all are combined, total solution = 300 litres
 Total wastage = 220 litres
 Total used fuel = 80 litres
 So, wastage in 100 litres = $80/3$ litres
 $\% \text{ wastage} = 26.6666\% \dots$
 $= 27\% \text{ (approx)}$

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Question # 9

Two trees are there. One grows at 3/5 of the other in 4 years, total growth of trees is 8 ft. what growth will smaller tree will have in 2 years?

Answer:-

Answer should be 1.5 !!!
 Let the trees be x,y
 from question : -
 eq1 is $x = 3/5(y)$
 eq2 after 4 yrs,
 $x+y = 8$
 from the 2 equations we get $y = 5$ and $x = 3$
 according to our equation $x = 3/5(y) \rightarrow x$ is the smaller tree.
 In 4 yrs x grows 3ft
 In 2 yrs x grows ?ft
 Ans = 1.5ft.

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Question # 10

A person was fined for exceeding the speed limit by 10mph. Another person was also fined for exceeding the same speed limit by twice the same. If the second person was traveling at a speed of 35 mph, find the speed limit?

Answer:-

Threshold speed = x mph
 let us assume that the 1st person was travelling at $(x+10)$ mph
 so it's obvious that the 2nd person travels at $2*(x+10)$ mph = 35mph; which means $x = 7.5$ which is the threshold or the speed limit.
 So according to me the ans is 7.5mph.



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Question # 11

A plane moves from 90°N 40°E to 90°N 40°W. If the plane starts at 10 am and takes 8 hours to reach the destination, find the local arrival time?

Answer:-

80 deg -----> $80 \times 4 = 320$ minutes = 5 hours 20 minutes

10 a.m + 8 hours = 6 p.m

6 p.m + 5 hours + 20 minutes = 11.20 p.m = answer

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Question # 12

In a group of 15, 7 have studied Latin, 8 have studied Greek, and 3 have not studied either. How many of these studied both Latin and Greek?

- A. 0
- B. 3
- C. 4
- D. 5

Answer:-

L=7

G=8

Total number of students(U)=15

Number of students who study neither of them (N)=3

draw a simple diagram representing the above situation.

we need to find out L INTERSECTION G.

Thus we have,

L UNION G + N = 15

L UNION G = L + G - L INTERSECTION G = 7 + 8 - L INTERSECTION G

L INTERSECTION G = 7 + 8 + N - 15

= 7 + 8 + 3 - 15

= 3

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Question # 13

How many 5 digit numbers can be formed using the digits 1, 2, 3, 4, 5 (but with repetition) that are divisible by 4?

Answer:-

Divisibility rule of 4 is last two digits are divisible by 4

so in 5 digit no last two digit should always be 12,24,32,44,52;

(any one of them may be)

so for last two digits 5 ways are possible ;

since repetition are allowed then for 3rd place from right there are also 5 ways so in 3rd place either of 1,2,3,4,5 is possible;

similarly at 4th place either of 1,2,3,4,5 is possible so again 5 ways are possible

similarly at 5th place also 5 ways are possible

so total no are: $5 \times 5 \times 5 \times 5 = 625$

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Question # 14

Two pipes A and B fill at A certain rate B is filled at 10,20,40,80,. If 1/16 of B is filled in 17 hours what time it will take to get completely filled?

Answer:-

It fills at a rate of 2 (i.e) 10,20,40.... 1/16 is filled in 17hr. then it fills as 1/8,1/4,1/2,1.. Hence 17+17+17+17=21

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Question # 15

The program size is N. The memory occupied by the program is $M = 4000\sqrt{N}$. If the program size is increased by 1%. Then what is the percentage increase in memory?

Answer:-

$4020\sqrt{N}$

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Question # 16

A man walks at the speed of 4km per hour from point A to B and comes back from point B to A at the speed of 8km per hour. What is the ratio between the time taken by man from point A to B and B to A?

Answer:-

4 km/hr from A to B = s1

8 km/hr from B to A = s2

Speed = Distance/Time

$s1 = d1/t1$

$s2 = d2/t2$

$s1/s2 = t2/t1$

We need t1/t2 so,

Answer ratio is 2:1



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Question # 17

What is the probability that 4 numbers selected from 1 to 40 are not consecutive?

Answer:-

From 1 to 40 there are 37 possible combinations of 4 consecutive numbers.

Total number of possible combinations = $40C4$.

Probability of outcome to be consecutive = $37/(40C4) = 1/2470$

Probability of outcome not to be consecutive = $1 - (1/2470) = 2469/2470$

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Question # 18

Suppose Jalia is twice older than qurban. If Jalia was 4 years younger, qurban was 3 years older, the diff. between their ages is 12 years?

Answer:-

Jalia is 38 years old and qurban is 19 years old.

$38 - 4 = 34$ jalia younger

$19 + 3 = 22$ qurban older the difference btw them is $34 - 22 = 12$.

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Question # 19

A salesperson multiplied a number and got the answer 3, instead of that number divided by 3. What is the answer he actually has to get?

Answer:-

$3 * 1 = 3$

instead of 1 if he divided by 3

then he will get 1 only

$3 * (1/3) = 1$

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Question # 20

Find the fourth row, having the bit pattern as an integer in an 8-bit computer, and express the answer in its decimal value.

A 0 0 0 0 1 1 1 1

B 0 0 1 1 0 0 1 1

C 0 1 0 1 0 1 0 1

(A U (B - C)) ?

Answer:-

223 is answer

B - C is bitwise addition of B and 2s compliment of C

then bitwise union of A with abover result gives the ans as 1101 1111 which

has decimal value of 223.

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Question # 21

Find the right number, from the given options, at the place marked by the question mark: 2, 4, 8, 32, 256, ?

Answer:-

Each of the preceding number is multiplied by the previous number

So on multiplying $2 * 2 = 4$

$4 * 2 = 8$

$8 * 4 = 32$

$32 * 8 = 256$

$256 * 32 = 8192$

so the answer for this series is 8192

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Question # 22

Given 3 lines in the plane such that the points of intersection form a triangle with sides of length 20, 20 and 30, What is the number of points equidistant from all the 3 lines?

Answer:-

1

As it is the incenter of the formed triangle which is equidistant from all the three lines...

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Question # 23

In a two dimensional array X(9,7) with each element occupying 4 bytes of memory with the address of the first element x(1,1) is 3000, find the address of X(8,5) ?

Answer:-

Ans is 3212 but how explain

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Question # 24

194 base 10 = ____ base 5?

Answer:-

answer is 1234

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Question # 25

A man walks 3km east then 5km north then 8km east. Now how far is he from the starting point

Answer:-

if u draw a rectangle of length of total(3+8) km and breadth 5km and draw a diagonal from the starting to ending point, by Pythagoras Theorem, square(hyp)=square(the both sides)

Therefore, $25+121=\text{sqrt}(\text{answer})$

it comes to be 12.083km

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Question # 26

What is the largest prime no. stored in 8bit/6bit/9bit/7bit memory?

A,B,C are the mechanisms used separately?

Answer:-

for 6 bit maximum allowed number is 64 prime number is 61

for 7 bit maximum allowed number is 128 prime number is 127

for 8 bit max allowed number is 256 prime number is 253

for 9 bit max allowed number is 512 prime number is 511

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Question # 27

The cost of one pencil, two pens and four erasers is Rs.22 while the cost of five pencils, four pens and two erasers is Rs.32. How much will three pencils, three pens and three erasers cost?

Answer:-

Let a, b, and c denote pencil, pen and eraser respectively.

Given that the cost of one pencil, two pens and four erasers is Rs.22

This can be written as,

$$a + 2b + 4c = 22 \dots\dots\dots(1)$$

Similarly, the cost of 5 pencils, 4 pens and 2 erasers is Rs. 32

This implies

$$5a + 4b + 2c = 32 \dots\dots\dots(2)$$

Adding (1) and (2), we get

$$6a + 6b + 6c = 54$$

We need to find the value of $3a + 3b + 3c$.

Dividing by 2, we get

$$3a + 3b + 3c = 27.$$

Hence, the cost of 3 pencils, 3 pens, and 3 erasers is Rs.27

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Question # 28

the base 5 representation of the decimal number 2048 is _____?

Answer:-

answer is 31143

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Question # 29

A super fast bus of KSRTC starting from Trivandrum and reaches Attingal in 45 minutes with an average speed of 40 km/hr. If the speed is increased by 10 km/hr how much time it will take to cover the same distance?

- (a) 34 minutes
- (b) 36 minutes
- (c) 38 minutes
- (d) 40 minutes

Answer:-

b) 36 min

$d = s * t$

$s = 40 \text{ km/hr} = 40/60 \text{ km/min}$

$t = 45 \text{ min}$

$d = (4/6) * 45 = 30 \text{ km}$

now increased speed = $50 \text{ km/hr} = 50/60 \text{ km/min}$

$d = 30 \text{ km}$

$t = d/s$

= 36 min

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Question # 30

194 base 10 = ___ base 5
The base 5 representation of the decimal number 2048 is _____?

Answer:-

2048 to base 10:-
2 ["add" the next (first) digit]
 $2 * 10 = 20$ [multiply by the base]
 $20 + 0 = 20$ [add the next digit]
 $20 * 10 = 200$ [multiply by the base]
 $200 + 4 = 204$ [add the next digit]
 $204 * 10 = 2040$ [multiply by the base]
 $2040 + 8 = 2048$ [add the next digit]
??? to base 5:-
3
 $3 * 5 = 15$ [multiply by the base]
 $15 + 1 = 16$ [add the next digit]
 $16 * 5 = 80$ [multiply by the base]
 $80 + 1 = 81$ [add the next digit]
 $81 * 5 = 405$ [multiply by the base]
 $405 + 4 = 409$ [add the next digit]
 $409 * 5 = 2045$
 $2045 + 3 = 2048$
since both the answers tally i.e., $2048 = 2048$
hence the no. 31143 is the ans..

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Question # 31

A bus started from bus stand at 8.00am, and after 30 minutes staying at destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus is 18mph. In return journey bus travels with 50% fast speed. At what time it returns to the bus stand?

Answer:-

As the Bus is travelling 18mph it takes 1 & 1/2 hr to reach destination.
Bus stays there for 1/2 hr.
As in the return journey bus travelled with the 50% fast speed mean with the speed of 27mph. mean it took 1 hr to return
For total journey it took $1 \frac{1}{2} + 1 \frac{1}{2} + 1 \text{ hr} = 3 \text{ hr}$.
therefore $8 + 3 = 11$
Bus returns as 11 a.m.

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Question # 32

What is the largest prime no. stored in 8bit/6bit/9bit/7bit memory?
2. A,B,C are the mechanisms used separately to reduce the wastage of fuel by 25%,20%,10%. What will be fuel economy if they were used combine?

Answer:-

for 1st machine $100 - 25$ ie 75
for 2nd machine $100 - 20$ ie 80
for 3rd machine its $100 - 10$ ie 95
so efficiency in rev = $(90 * 80 * 75) / 10000$
 $= 54$
so fuel economy = $100 - 54$
 $= 46$

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Question # 33

27(deg) 6 43.15
45(deg) 31 4.3
find the degrees when the time is 3 o'clock?

Answer:-

The angle between the minutes and hour hand would be 45 degree at 3 o'clock

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Question # 34

A building with height D shadow up to G. A neighbor building with what height shadows C feet. |----|----|----|----|----|----|----| A B C D E F G H

Answer:-

this can be solved by using the rule of cross multiplication i guess....
to get a shadow of G ft the ht of the building should be D
hence, for the shadow to be C ft, the height of the building should be $Cx D / G$

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Question # 35

Wind flows 160 miles in 330 min, for 80 miles how much time required?

Answer:-



answer as 165

as

160 miles are covered in 330 min

1 mile will be covered in $330/160$ min

Hence 80 miles will be covered in $80 * 330/160 = 165$ min.

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Question # 36

Which of the following set of numbers has the highest Standard deviation?

1,0,1,0,1,0

-1,-1,-1,-1,-1,-1

1,1,1,1,1,1

1,1,0,-1,0,-1

Answer:-

-1,-1,-1,-1,-1,-1

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Question # 37

1/3 of a number is 3 more than 1/6 of the same number.

What is the number?

Answer:-

let x be a no

now 1/3 of a no is x/3

and again

$x/3 = x/6 + 3$

$x/3 - x/6 = 3$.

$x = 18$

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Question # 38

A person, who decided to go to weekend trip should not exceed 8 hours driving in a day. Average speed of forward journey is 40 m/h. Due to traffic in Sundays, the return journey average speed is 30 m/h. How far he can select a picnic spot?

a) 120 miles

b) Between 120 and 140 miles

c) 160 miles

Answer:-

solution--- $t_1 =$ time for forward journey. $t_2 =$ time 4 return journey. $t = t_1 + t_2 = 8$ hrs; $x =$ destination; $t_1 + t_2 = x / 40 + x / 30 = 8$; $x(7/120) = 8$; $x = 8 * 120 / 7 = 137$ miles answer is (b)

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Question # 39

After the typist writes 12 letters and addresses 12 envelopes, he inserts 1 letter per envelope randomly into the envelopes. What is the probability that exactly 1 letter is inserted in an improper envelope?

Answer:-

as 1 letter cannot be in improper envelope. there has to be more than 1 letter that is in improper envelope

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Question # 40

An amount doubles itself in 3 years. When This amount can become 8 times of itself?

Answer:-

Suppose Amount Was Rs 100.00 In 1st Year

1 To 3 Yrs - 200

4 To 6 Yrs - 400

7 To 9 Yrs - 800

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Question # 41

If 8 men can reap 80 hectares in 24 days, then how many hectares can 36 men reap in 30 days?

Answer:-

By Direct approach :

more men, more hectares

more days, more hectares

so,

$8 / 36 : 24 / 30 = 80 / x$

$x = (36 \times 30 \times 80) / (8 \times 24)$

450

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Question # 42

Which of the following set of numbers has the highest Standard deviation?

- a) 1,0,1,0,1,0
- b) -1, -1, -1, -1, -1, -1
- c) 1,1,1,1,1,1
- d) 1,1,0, -1,0, -1

Answer:-

There is a mathematical formula for calculating standard deviation, but you don't need it for this question. StDev is a measurement of how much variation there is among different numbers in a series. Since choices b and c contain the same number 6 times, there is no variation. choice d also doesn't show much variation. Number 1 does vary from one point to the next, so it has variance, and therefore would have a higher StDev.

ans: choice (a)

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Question # 43

when $\frac{3}{4}$ of a units digit is added to tens digit of a two number, the sum of the digit becomes 10. If $\frac{1}{4}$ of the tens digit added to the units digit then the sum of the digits is 1 less than the previous. Find the number

- a)94
- b)84
- c)48
- d)88

Answer:-

answer is 48(c)

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Question # 44

For temperature a function is given according to time : $((t^2)/6)+4t+12$ what is the temperature rise or fall between 5PM to 8PM?

Answer:-

Apply $t=5$, $ans=33.7$ for $t=8$, $ans=46.7$

The difference between the two, $46.7-33.7=13$ is the answer upto my knowledge.

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Question # 45

One ship start his journey from a port and another ship start his journey from H at the same time, at which place they will meet?

Answer:-

The right question is: A ship started from port and moving with I mph and another ship started from L and moving with H mph. At which place these two ships meet?
! ____ ! ____ ! ____ ! ____ ! ____ ! ____ ! port G H I J K L

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Question # 46

If A is traveling at 72 km per hour on a highway. B is traveling at a speed of 25 meters per second on a highway. What is the difference in their speeds in m/sec?

Answer:-

ya the answer is 5sec..

converting 72kmph in m/sec we get 20m/sec

so $25-20=5$ sec/m

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Question # 47

A candidate appearing for an examination has to secure 40% marks to pass paper I. But he secured only 40 marks and failed by 20 marks. What is the maximum mark for paper I?

Answer:-

let us consider x is the maximum number of marks.

secured marks $\Rightarrow 40\%$ of $x = 40/100$ of $x = 2x/5$

To pass an exam he has to score = fail marks + 20

$= 40 + 20 = 60$

$2x/5 = 60$

$x = 150$

maximum marks for paper I is = 150

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Question # 48

A moves 3 kms east from his starting point . He then travels 5 kms north. From that point he moves 8 kms to the east. How far is A from his starting point?

Answer:-

ans is 12.43...

diagrammatically, u will get a right angled triangle with sides 5 n 8.. using pythagoras th. 3rd side will be 9.43..

$9.43^2 + 3^2 = 12.43^2$



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Question # 49

A moves 3km. east from his starting point,he then travels 5km north,from that point he moves 8kms to the east. how far is A from his starting point?
if a student scores GPA in his sem & year as given below then calculate his GPA for 3 year.

sem 2,4,3,4

yr 1,3,1,9

bbgmpqbgskobgasbbgdfbgsti how many bs are followed by gs which are not followed by s in the above series?

$M(373.5)+r(3.4)+t(7.7)-r(5.8)=?$

t=truncation ,r=round-off

Answer:-

A-starting point

B-starting point of 5km walk

C-starting point of 8km walk

D-Final point

Now to find distance between A and D.

BCD makes a right-angle triangle... therefore,

$DB=\sqrt{64+25}$ (pythagoras theorem)

$DB=9.43$

Now $AD=AB+DB=3+9.43$

Hence, $AD=12.43$ (Answer)

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Question # 50

Low temperature at the night in a city is $\frac{1}{3}$ more than $\frac{1}{2}$ high as higher temperature in a day. Sum of the low temperature and highest temp. is 100 degrees. Then what is the low temp?

Answer:-

night temp= n ,day temp= d

$n=\frac{1}{3}d+\frac{d}{2}=\frac{4d}{6}$

$n+d=100$ (given)

hence, $\frac{4d}{6}+d=100$

$d=60$

$n=40$ deg

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Question # 51

A work is done by two people in 24 min. one of them can do this work a lonely in 40 min. how much time required to do the same work for the second person?

Answer:-

let A does the work in 40 mins (given)

let B does the work in x mins

amt of work done by A in 1 min = $\frac{1}{40}$

amt of work done by B in 1 min = $\frac{1}{x}$

amt of work done jointly by both A & B = $\frac{1}{24}$

which implies $(\frac{1}{40})+(\frac{1}{x}) = (\frac{1}{24})$

on solvin the above eqn. for x we get

$x = 60$

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Question # 52

A 0 0 0 0 1 1 1 1

B 0 0 1 1 0 0 1 1

C 0 1 0 1 0 1 0 1

Find $(A \cup B) \cap C$

Answer:-

To find A-C, We will find 2's compliment of C and then add it with A,

That will give us (A-C)

2's compliment of C=1's compliment of C+1

$=10101010+1=10101011$

$A-C=10101011+00001111$

$=10111010$

Now $(A-C) \cup B$ is .OR. logic operation on (A-C) and B

$10111010.OR.00110011$

The answer is = 10111011,

Whose decimal equivalent is 187.

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Question # 53

TCS Quantitative Aptitude Questions:

Answer:-

1. My flight takes off at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed.

a) 6:00 am b) 6:40am c)7:40 d)7:00 e)8:00



2. in 80 coins one coin is counterfeit what is minimum number of weighings to find out counterfeit coin ?

3. Three men go to a hotel to stay, the clerk says \$30 per room/day so all the three plan to stay in one room so each pays \$10. After some time the clerk realizes that he made a mistake of collecting \$30 but the room cost only \$25, therefore he decides to return \$5 to them so he calls the roomboy and gives him \$5 asking him to return. The roomboy keeps \$2 with him and he returns only \$3 (\$1 for each). Now Totally all have paid \$9 each (\$27) + roomboy \$2 which is equal to \$29. Where did \$1 go, who has made the mistake?

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Question # 54

The number 362 in decimal system is given by $(1362)_x$ in the X system of numbers find the value of X

- a) 5
- b) 6
- c) 7
- d) 8
- e) 9

Answer:-

Ans. is 6.

$(1362)_x$ to base x = $(362)_{10}$ to base 10

so

$$1 \cdot x^3 + 3 \cdot x^2 + 6 \cdot x^1 + 2 \cdot x^0 = 362$$

substitute $x = 6$;

$$216 + 108 + 36 + 2 = 362.$$

we'll get 362.

Hence answer is 6.

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Question # 55

A ship started from port and moving with I mph and another ship started from L and moving with H mph. At which place these two ships meet ?

ans is between I and J and close to J

! _ _ _ ! _ _ _ ! _ _ _ ! _ _ _ ! _ _ _ !

Answer:-

port G H I J K L

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