

# **Aptitude Job Interview Questions And Answers**



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## Aptitude Interview Questions And Answers Guide.

### Question - 1:

The citizens of planet nigiet are 8 fingered and have thus developed their decimal system in base 8. A certain street in nigiet contains 1000 (in base 8 buildings numbered 1 to 1000. How many 3s are used in numbering these buildings? The citizens of planet nigiet are 8 fingered and have thus developed their decimal system in base 8. A certain street in nigiet contains 1000 (in base 8 buildings numbered 1 to 1000. How many 3s are used in numbering these buildings?

#### Ans:

300 in the nigiets base 8  
192 in the base 10 for us ....  
the answer is total of 192 (base 10)

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### Question - 2:

The cost of 17 apples, 9 oranges, 13 bananas is rs 130, whereas cost of 13 oranges, 7 apples and 10 bananas is rs 100. find the cost of 1 apple, 1 banana and 1 orange put together?

#### Ans:

Rs 10

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### Question - 3:

A no. of cats got together and decided to kill between them 99919 mice. every cat kills equal no. of mice. write a program to find no. of cats?

#### Ans:

No. of Cats: 163, 613, or 99919

```
declare
-- Local variables here
i integer;
begin
-- Test statements here
for i in 1..99919 loop
if mod(99919,i) = 0 then
dbms_output.put_line (i);
end if;
end loop;
end;
```

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### Question - 4:

Cube has colors blue, red, yellow each on two opposite sides. cube is divided into "32 small cubes and 4 large cubes". question: how many cubes (on 36 cubes) have blue at least one side. how many cubes have colors on two sides?

#### Ans:

If you paint the cube such that:  
Blue and Blue are on opposite sides  
Red and Red are on opposite side  
Yellow and Yellow are on opposite side  
And, since the question didnt state where the 32 smaller could be, Im placing the 32 smaller cubes on the sides with Blue paint. Thus:  
32 cubes have Blue on at least one side.  
20 cubes have have colors on two sides.

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### Question - 5:

A, B, C, D went to a hotel and planned to share the bill equally. But afterwards they changed their plan and to pay proportional to consumption A paid 240, B & C paid equally, D paid only half the amount that he should have paid based on the first plan. What is the amount paid by B?



**Ans:**

ans - 160  
jus suppose 1st plan all paid x rs means individually x/4  
2nd plan  
x equals=  $240 + x/4 + x/4 + x/8$   
solving x equals 640  
so  
paid by B is x/4  
160

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**Question - 6:**

There is a 20 X 20 array. In Each row, the shortest person is called and among them, the tallest person is A. In Each column, the shortest person is called and among them, the tallest person is B. Who is taller?

**Ans:**

A is taller

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**Question - 7:**

How many types can arrange to seat 4 men & 4 woman on a circular table alternate?

**Ans:**

$3! \times 4! = 144$

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**Question - 8:**

A, B and C starts from a point on a circle. A and B goes clockwise and C anticlockwise. A meets C after 88s B meets C after 110s. After how many seconds A meets B?

**Ans:**

Ans: 440s  
Let velocity of A,B and C be a,b,c resp.  
 $2(\pi)r/88 = a+c$   
 $2(\pi)r/110 = b+c$   
we have to find  $2(\pi)r/a-b$   
Ans: 440

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**Question - 9:**

What is the probability of getting 2 prime nos. from 1 to 20?

**Ans:**

Given that there are 8 Prime Numbers under 20, and if the limit is only random numbers under 20 then there is a 40% chance of getting a prime number.

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**Question - 10:**

How many such pairs of letters are there in the word WONDERFUL each of which has as many letters between them in the word as in the English alphabet? please give clear guidance to solve this type of questions?

**Ans:**

8m

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**Question - 11:**

When the variables are pushed into the stack, which method is used to retrieve them from it?

- A. pop
- B. pull
- C. remove
- D. none of these

**Ans:**

actually ans is pop i am sure

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**Question - 12:**

Each of the followed paired numbers have a relationship that's the same for all of the paired numbers. What is the missing number?  
{4, 100} {7, 111} {8, 1000} {1, 1} {12, 1100} {2, ?}

**Ans:**

(8, 1000) ( $2^3, 10^3$ )  
(4, 100) ( $2^2, 10^2$ )  
(1,1) ( $2^0, 10^0$ )



(2,?) (2^1, 10^1)

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### Question - 13:

In an island three persons are there Jam, Dam, and Sam. Sam having pencil, Dam having cap and Jam having book .we have find who is author among them if

- (1) Sam says, Jam is author but author wearing cap.
- (2) Dam says, I am author but author not having cap.
- (3) Sam says, I am author but author having note book

Find who is author?

**Ans:**

jam is the author..

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### Question - 14:

If there are 2 wheelers and 4 wheelers parked in a school located at the heart of the city, find the number of 4 wheelers parked there if there were 58 wheels are parked there?

**Ans:**

we check according to the answers for eg.  $14 \times 4 = 56$  and  $1 \times 2 = 2$  then also total 58 wheel

thus 14 is the max no of 4 wheelers.

But less than 14 also possible so goes through the option.

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### Question - 15:

10 Men Can Complete A Piece Of Work In 15 Days And 15 Women Can Complete The Same Work In 12 Days. If All The 10 Men And 15 Women Work Together , In How Many Days Will The Work Get Completed?

**Ans:**

1 women=1/15

1 men = 1/10

if both men and women works together they will complete the work by 6 days

$= (1/10) + (1/15)$

$= (15+10)/150$

$= 25/150$

$= 1/6$  (i.e)

6 days

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### Question - 16:

The IT giant Tirnop has recently crossed a head count of 150000 and earnings of \$7 billion. As one of the forerunners in the technology front, Tirnop continues to lead the way in products and services in India. At Tirnop, all programmers are equal in every respect. They receive identical salaries and also write code at the same rate. Suppose 12 such programmers take 12 minutes to write 12 lines of code in total. How long will it take 72 programmers to write 72 lines of code in total?

**Ans:**

The formula for this question is  $M_1 * D_1 * W_2 = M_2 * D_2 * W_1$

So putting all these values we get the answer to be 12 minutes

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### Question - 17:

in pure milk if 20% replaced by water and in this again 20% is replaced by water and again 20% is replaced by water then what is the proportion of milk in that mixture?

**Ans:**

$100 - 20\% = 80\%$  ;  $80 - 20\% = 64\%$  ;  $64 - 20\% = 51.2\%$

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### Question - 18:

In a right-angled triangle, the square of the hypotenuse is twice the product of the other two sides. Then one of the acute angles of the triangle is

- A. 45°
- B. 30°
- C. 60°
- D. 150°

**Ans:**

3 sides are p, q,  $\sqrt{2pq}$ .

now if it is right-angle then  $2pq = p^2 + q^2$ ;

$\cos(\text{angle}) = \sqrt{p/2q}$ ;

$\sin(\text{angle}) = \sqrt{q/2p}$ ;

So  $\sin(2 * \text{angle}) = 2 * \sin(\text{angle}) * \cos(\text{angle})$ ;

$\sin(2 * \text{angle}) = 1$ ;

So  $\text{angle} = 45^\circ$ ;

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**Question - 19:**

There are 76 persons. 53 can read Hindu, 46 can read times, 39 can read Deccan and 15 can read all. If 22 can read Hindu and Deccan and 23 can read Deccan and times then what is the number of persons who read only times and Hindu?

**Ans:**

No it must be 16....

Since  $H+D=22$

$T+D=23$

$ALL=15$

then  $76=22+23+15+(H+T)$

$H+T=76-60=16...$

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**Question - 20:**

Three numbers are selected at random without replacement from n number, what is the probability that the first number drawn will be the smallest and the second is the largest?

**Ans:**

$1C1 * 1C(N-1) * 1C(N-2) / 3C(N-3)$

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**Question - 21:**

I will come thrice in a minute, twice in an hour and once in a day.. Who am I?

**Ans:**

A, E, I, O, U is the Answer.

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**Question - 22:**

Find a number that divides 37, 67, 97. The remainders will be 1, 2, 3 respectively?

**Ans:**

We can transform this question into: >

Find a number which divides 36, 65, 94?

Now you will be able to find the answer..

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**Question - 23:**

One man or two women or three boys can do a work in 44 days. Then one man, one woman and one boy together can finish the same work in ---- days?

**Ans:**

Exactly 24 days...

1 man does  $1/44$  job per day

2 women do  $1/44$  job per day

3 children do  $1/44$  job per day

So

1 man, 1 woman, 1 child..

$1/44 + 1/88 + 1/132$  job per day

So  $11/264 = 1/t$  where t is the time taken..

Now  $264/11 = 24 = t$

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**Question - 24:**

In how many ways can a lock be opened if that lock has three digit number lock if

i) the last digit is 9

ii) and sum of the first two digits is less than or equal to the last digit

**Ans:**

Our number is xy9

Now if x is 0 then y has 10 options

Now if x is 1 then y has 9 options (except 9)

Now if x is 2 then y has 8 options (except 9 and 8)

.

.

Now if x is 9 then y has 1 option (that is 0)

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**Question - 25:**

A cube has a side of 4 cm. The cube is painted red on all six sides. This cube is then cut into 125 smaller cubes. How many of these smaller cubes will have only one



side of their sides painted?

**Ans:**

The 4cm cube is divide into 125 smaller cubes:

that means that the 4cm cube = 5 smaller cubes in height, width, and depth

Also, given that the 4cm is painted red on all six side:

- only those smaller cubes that touch no outer surface will be free of red paint, thus:

- 27 smaller cubes have no red paint on them

- 98 smaller cubes have some red paint on them

How many of these smaller cubes will have only one side of their sides painted?

- only those smaller cubes that do not touch the edges of the 4cm cube will have only one side painted, thus:

- 54 smaller cubes have only one side painted

- 36 smaller cubes have two sides painted

- 8 smaller cubes have three sides painted

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### Question - 26:

Alok and Bhanu play the following min-max game. Given the expression

$$N = 9 + X + Y - Z$$

where X, Y and Z are variables representing single digits (0 to 9), Alok would like to maximize N while Bhanu would like to minimize it. Towards this end, Alok

chooses a single digit number and Bhanu substitutes this for a variable of her choice (X, Y or Z). Alok then chooses the next value and Bhanu, the variable to substitute the value. Finally Alok proposes the value for the remaining variable. Assuming both play to their optimal strategies, What would be the value of N at the end of the game?

**Ans:**

max=27

min=9

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### Question - 27:

1,6,15,?,15,6,1

Find the missing number in the series?

**Ans:**

30

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### Question - 28:

Present population of town is 35,000 having males and females. If The population of males is increased by 6% and if the population of females is increased by 4%, then after 1 year the population becomes 36,700. Find the number males and females?

**Ans:**

males: 15,000

females:20,000

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### Question - 29:

$$(1 - 1/6) (1 - 1/7) \dots (1 - 1/(n+4)) (1 - 1/(n+5)) = ?$$

**Ans:**

$$= (5/6) * (6/7) * (7/8) * \dots * ((n+3)/(n+4)) * ((n+4)/(n+5))$$

$$= 5/n+5$$

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### Question - 30:

A motor cycle stunts man belonging to a fair, rides over the with vertical walls of a circular well at an average speed of 54 kph for 5 minutes. If the radius of the well is 5 meters then the distance travelled is :

a) 2.5 kms

b) 3.5 kms

c) 4.5 kms

d) 5.5 kms

e) None of the above

**Ans:**

c) 4.5 kms

54 kilometers per hours = 54000 meters per hour

54000 meters / 60 minutes = 900 meters per minute

900 meters \* 5 minutes of traveling time = 4500 meters travel

4500 meters = 4.5 kilometers traveled in 5 minutes

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### Question - 31:

Entry ticket to an exhibition ranges from 1p to 7p. You need to provide exact change at the counter. You have 7p coin. In how many parts will you divide 7p so that you will provide the exact change required and carry as less coins as possible?

a) 8



- b) 7
- c) 5
- d) 3

**Ans:**

d) 3

Divide the 7p into 1p, 2p, and 4p.

$$1p = 1p$$

$$2p = 2p$$

$$3p = 1p + 2p$$

$$4p = 4p$$

$$5p = 4p + 1p$$

$$6p = 4p + 2p$$

$$7p = 4p + 2p + 1p$$

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### Question - 32:

Form 8 digit numbers by using 1,2,3,4,5 with repetition allowed and must be divisible by 4?

**Ans:**

There are 78125 8 digit numbers form from the numbers 1, 2, 3, 4, and 5 that are evenly divisionable by 4. I think thats just a few too many than could be listed here.

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### Question - 33:

If  $(A + 3)^2 = 9$  and  $(B + 4)^2 = 25$  then what is the min value for a and b?

**Ans:**

If  $A=0$  And  $B=1$  then both equation are satisfied....

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### Question - 34:

$$(\log a)^2 - (\log b)^2 = ?$$

**Ans:**

$$(\log a + \log b)(\log a - \log b)$$

$$= \log ab \cdot \log a/b$$

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### Question - 35:

With just six weights and a balance scale, you can weigh any unit number of kgs from 1 to 364. What could be the six weights?

**Ans:**

The six weights will be 1 kg, 3kg,9kg, 27kg, 81 kg, and 243kg.  
for instance to weigh 2kg= 3kg-1kg...and so on for all the weights

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### Question - 36:

In the reading room of a library, they are 23 reading spots. Each reading spot consists of a round table with 9 chairs placed around it. There some readers such that in each occupied reading spot there are different number of readers. If in all there are 36 readers, how many reading spots do not have even a single reader?

**Ans:**

The key here is realizing that the tables that aren't empty each have a DIFFERENT number of readers. There's only one way to do this.

The very least number of people you could have at a table is just 1. The next highest number that's different than that is 2, so another table can have 2 people. Then another table might have 3, and so on. But if you add up  $1 + 2 + 3 +$  and so on up to 8, you get 36 people. So if we seat 36 people at different tables such that there's a different number at each table, the number of tables we used is 8. And since the table with the most number of people has eight people, then there are enough seats at the table, so we don't have to worry about that.

That means  $23 - 8 = 15$  tables are empty.

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### Question - 37:

How can a cake(circular) be cut into 8 pieces by making just 3 cuts?

**Ans:**

Make two cuts to divide the cake into 4 (cutting on the diameter of a circular cake, the cuts perpendicular to each other). Now, place the 4 sectors of the cake one over the other. Make a cut such that the cut goes through the centre cutting each of the cake sectors into half. So now we have done 3 cuts. Each sector is cut into two so  $4 * 2 = 8$ .

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### Question - 38:

You hve been given 2 Candles which can burn upto 60 min each.

With the help of them how will you calculate time upto 90 min.

(You havent been provided with any measuring tape or anything)?

**Ans:**





Burn one candle completely==60 mins  
Burn the other candle from both the ends ==30 mins  
(60+30=90mins:)

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**Question - 39:**

It has 20 mixture contains mil and water in the ratio 3:5, replace 4 liters of mixture with 4 liters of water what is the final ratio of milk and water?

**Ans:**

milk:water = 3:7

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**Question - 40:**

In a theater the ratio of car & two wheeler is 1:8. Total Number of tyres are 100. Find how many are cars and how many are two wheelers?

**Ans:**

car/2wheeler=1/8,suppose car be X & 2wheeler be Y  
 $X/Y=1/8$ ;  $Y=8X$  also there r 4 tyre in 1 car & 2 tyre in 1 two wheeler ;  
therefore  $4X + 2Y=100$   
Solving these 2 eq.  $X=5$  &  $Y=40$ .

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**Question - 41:**

Given that black->blue  
blue - green  
green - yellow  
yellow - red  
red - violet  
violet - black  
What is the color of blood?

**Ans:**

red-violet  
which further tends to black in dis way sequence moves on infinitely  
so conclusion will b violet

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**Question - 42:**

Suppose a train passes two cars moving in the direction at 45km/hr and 50km/hr in 36 sec and 54 sec respectively. What is the length of the train?

**Ans:**

train crossed the car with less speed in less time and the car with high speed in more time.i.e train and two cars going in the same direction.  
hence 1st car  
 $L/((S-45)*5/18)=36$  i.e  $L=10S-450$   
similarly for 2nd car  
 $L=15S-750$   
BY solving these two equations we get length of the train  $L=150$ mtrs

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**Question - 43:**

In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

5. Statements : All bags are chalks. All chalks are bottles.

Conclusions :

- I Some bottles are bags.
  - II. All bags are bottles
  - III. All bottles are bags
  - IV. Some chalks are not bags
- A) Only I , II and IV follow  
B) Only I , III and IV follow.  
C) Only II, III and IV follow.  
D) All Follow  
E) none of these

Ans: A

6. Statements : Some trees are buses, All buses are hats

Conclusions :

- I Some trees are hats
  - II. Some hats are trees
  - III. All hats are buses
  - IV. Some buses are hats
- A) None follow s  
B) Only I, II and IV follow.  
C) Only II , III and IV follow.  
D) All Follow  
E) none of these



**Ans:**

ques 5: answer is E..as conclusion I and II follow but no other satisfies the condition

Ques 6: answer is B..conclusion I, II and IV are true if statements are assumed true...

This could be easily cleared by Venn diagram...

If : All X are Y then it follows that Some X will definitely be Y as all are Y..but we cant say the same about Y because there may or may not be some Y who are not X...but certainly Some Y are X.but we cant predict anything about remaining Y because they may be a part of X or may not be a part of X.

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**Question - 44:**

One monkey climbs 6 mts and fall 3 mts in alternate minutes then time taken to climb a tree 60 meters high?

**Ans:**

it will take 38mins to reach 60meters.

at 39th min it will b back at 57meters and again at 40th min it will be back at 60meters

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**Question - 45:**

There are 3 Sections with 5 questions each. If three questions are selected from each section, then in how many ways this selection can be done?

**Ans:**

If there are 5 questions, and only 3 question are slected, that is 10 different possible combinations. There 3 section, and with each section having 10 possible combinations, give 1000 different possible combinations.

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**Question - 46:**

Rita puts 9 pairs of black socks and 8 pairs of white socks in a drawer. She takes 3 socks. What is the probability that we get a pair of black socks?

**Ans:**

among 3 socks she has to choose 2 black socks from 9 pair(=18) of black socks, that can be done in  $18C_2$  ways. and the third sock can be chosen from among the remaining socks that can be done in  $((8+9-1) \times 2)C_1$  ways i.e. in 32 ways.

ans.  $32 \times 18C_2$

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**Question - 47:**

A solid cube is painted black on two of its opposite faces and is cut into 343 pieces. how many small pieces have no paint?

**Ans:**

245 pieces have no color on them

98 pieces have black on one side

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**Question - 48:**

Man walks east and turns right and then from there to his left and then 45degrees to his right. In which direction did he go?

**Ans:**

south

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**Question - 49:**

A student is ranked 13th from right and 8th from left. How many students are there in totality?

**Ans:**

20 students

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**Question - 50:**

In June a baseball team that played 60 games had won 30% of its game played. After a phenomenal winning streak this team raised its average to 50%. How many games must the team have won in a row to attain this average?

A. 12

B. 20

C. 24

D. 30

**Ans:**

30 games

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**Question - 51:**

What is the missing number in  $56 / 7 = ? - 5$ ?

**Ans:**

13



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**Question - 52:**

$1/3 + 1/5 + 1/x = 1/8$ , find x?

**Ans:**

$$1/3 + 1/5 + 1/x = 1/8$$

solution:

$$1/3 + 1/5 - 1/8 = 1/x$$

$$40 + 24 - 15 = 1/x$$

$$49 = 1/x$$

$$49/120 = 1/x$$

$$x = 120/49$$

or

$$x = 2 \frac{22}{49} \text{ in fraction}$$

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**Question - 53:**

With 4/5 full tank vehicle travels 12 miles, with 1/3 full tank how much distance travels?

**Ans:**

$$4/5 \text{ full tank} = 12 \text{ miles}$$

$$1 \text{ full tank} = 12 / (4/5)$$

$$1/3 \text{ full tank} = 12 / (4/5) * (1/3) = 5 \text{ miles}$$

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**Question - 54:**

Which of the following is power of 3

a) 2345

b) 9875

c) 6504

d) 9833

**Ans:**

It is not possible all the time, that is, A No. is divided by three is a power of three.

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**Question - 55:**

9,18,21,25,20, What is the next number in the above Sequence?

**Ans:**

$$\text{ans} = 25$$

$$\text{bcoz, } 3 * 3 = 9$$

$$3 * 6 = 18$$

$$3 * 7 = 21$$

$$5 * 5 = 25$$

$$5 * 4 = 20$$

so like  $3 * 6$  and  $3 * 7$  it will be  $5 * 4$  and  $5 * 5$  mens increment by 1)

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**Question - 56:**

Jo, Do, and So are three persons

(1) So says Jo is football player, I also football player.

(2) Do says Jo is football player, I also football player.

(3) Jo says Do is football player, I also football player.

Find the football player among them?

**Ans:**

All three are football players

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**Question - 57:**

How to solve cube problems, like a big cube is divided into 64 smaller cubes. Some sides are painted in blue, red or green. Can you plz. guide me how to approach these types of problems?

**Ans:**

The given question is not fully correct .

I will give u another eg ...

If a cube is painted red and cut into 64 pieces .

Approach this question as ,,

$$64 \text{ pieces} = 4 * 4 * 4 \text{ so take } n=4$$

just use this formula

$$1. \text{ no sided painted} = (n-2)^3$$

$$2. \text{ 1 sided painted} = 6 * (n-2)^2$$

$$3. \text{ 2 sided painted} = 12 * (n-2)$$



4. 3 sided painted = always 8 (a cube has 8 corners)

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### Question - 58:

A certain number of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally?

- (a) 110 men
- (b) 130 men
- (c) 100 men
- (d) none of these

### Ans:

We have 2 equations

$n \cdot 10 = x$  and  $(n-10) \cdot 20 = x$  which gives  $n=20$ , where  $n$  is number of men to begin with.

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### Question - 59:

Suppose we have 10 liters of water... we have only two buckets, 1 of capacity 3liter and another of 7 liter.so how will we make combinations such that 1 bucket will have exactly 5 liters of water?

### Ans:

Fill the 7L bucket. Empty water from the 7L bucket into the 3L bucket, until the 3L bucket is full. Empty the 3L bucket and repeat. Now there is 1L of Water in the 7L bucket. Empty the 3L bucket and transfer the 1L of water from the 7L into it. Now fill the 7L bucket again. This time fill the 3L bucket until it is full, you will remove 2L of water from the 7L bucket because there is already 1L of water in the 3L bucket. Now you have 5L remaining in the 7L bucket.

[View All Answers](#)

### Question - 60:

If the list price of a book is reduced by Rs. 5, then a person can buy 5 more books for Rs. 300. The original cost of the book is

- (1) Rs. 15
- (2) Rs. 20
- (3) Rs. 25
- (4) Rs. 30

### Ans:

Let 'x' be the no of book that we buy with 5 rupee less from the original book price and we buy 5 more books with the rest money each costing original book price. so the no of cases arises are

Case 1:

$$x(15-5)+5(15)=300$$

Solving this equation we get the value of  $x = 22.5$  (which is a fraction value) so this case is not possible.

Case 2:

$$x(20-5)+5(20)=300$$

Solving this equation we get the value of  $x = 13.33$  (which is a fraction value) so this case is not possible.

Case 3:

$$x(25-5)+5(25)=300$$

Solving this equation we get the value of  $x = 8.75$  (which is a fraction value) so this case is not possible.

Case 4:

$$x(30-5)+5(30)=300$$

Here we get the value of  $x = 6$  (which can be possibly a no. of book, so the original price of the book is 30).

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### Question - 61:

A man climbing a rock at 24 km/hr and downhill 36 km/hr. Determine avg speed?

### Ans:

$2xy/xy =$  average speed. its very simple

[View All Answers](#)

### Question - 62:

A man fixed an appointment to meet Mr.X, X asked him to meet two days after the day before the after tomorrow. Today is Friday. What is the appointed day?

### Ans:

the answer is monday

[View All Answers](#)

### Question - 63:

A number when divided by D leaves a remainder of 8 and when divided by 3D leaves a remainder of 21. What is the remainder left, when twice the number is divided by 3D?

### Ans:

Ans: 3

When the number is divided by 3D we got 21. Means the number itself is 21 and  $3D > 21$ . when  $21/D$ , remainder is 8.



So  $D = 21 - 8 = 13$ .  
now  $(21 * 2) / (13 * 3)$ , Remainder is 3.

[View All Answers](#)

### Question - 64:

A Flight takes off at 2 A.M from northeast direction and travels for 11 hours to reach the destination, which is in northwest direction. Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

**Ans:**

the ans is 4am.  
the distance among their is  $(60+60)=120$ ,  
 $4 * 120 = 480$ ...  
THEN V HAV TO CONVERT HRS..  $480 / 60 = 8$ HRS  
 $10 - 8 = 2$ HRS  
IT STARTS 2AM SO  $2 + 2 = 4$ AM.

[View All Answers](#)

### Question - 65:

While traveling at uniform speed. U read a two digit no. after one hr the number is reversed order. After another hour the number read is same two digit number. What is the average speed?

**Ans:**

50 units/hour

[View All Answers](#)

### Question - 66:

What should be the value of a, in the polynomials  $x^2 - 11x + a$  and  $x^2 - 14x + 2a$ , so that these two polynomials have common factors.

- A. 24
- B. 1
- C. -1
- D. 1/2

**Ans:**

$(x-b)*(x-c) = x^2 - 11x + a$ .....(1)  
 $b+c=11$   
 $bc=a$   
 $(x-b)*(x-d) = x^2 - 14x + 2a$ .....(2)  
 $b+d=14$   
 $bd=2a$

solving we get

$b=8$   
 $c=3$   
 $d=6$   
which gives  
 $a=24$

[View All Answers](#)

### Question - 67:

From 7:00 AM to 11:00 AM it rained 2.25 inches. At 11:00 AM the rain increased to fall at a rate of 1.25 in. every two hours. How many inches of rain landed on the ground by 5:00 PM?

- a) 7
- b) 9.75
- c) 6
- d) 3.25
- e) 7.125

**Ans:**

Answer is c)6  
 $11$ AM -  $5$ PM = 6 hrs  
rain increased 1.25 every 2 hrs  
 $3 * 1.25 = 3.75$   
total rain =  $2.25 + 3.75 = 6$

[View All Answers](#)

### Question - 68:

Write a java code to print only unique numbers by eliminating duplicate numbers from the array? (using collection framework)?

**Ans:**

```
import javax.swing.JOptionPane;  
public static void main(String[] args) {  
    int[] array = new int[10];  
    for (int i=0; i < array.length; i++) {  
        array[i] = Integer.parseInt(JOptionPane.showInputDialog("Please enter"  
            + "an integer:"));  
    }  
}
```



```
checkDuplicate (array);
}
public static void checkDuplicate(int array []) {
for (int i = 0; i < array.length; i++) {
boolean found = false;
for (int j = 0; j < i; j++)
if (array[i] == array[j]) {
found = true;
break;
}
if (!found)
System.out.println(array[i]);
}
}
```

[View All Answers](#)

### Question - 69:

Three beauty pageant finalists-Cindy, Amy and Linda-The winner was musician. The one who was not last or first was a math major. The one who came in third had black hair. Linda had red hair. Amy had no musical abilities. Who was first?

#### Ans:

First is Linda (answer)  
she cant 3 bcoz she have red hair  
mean she (Linda)  
is 1 n 2.  
now 1 have musician  
but Amby cant first bcoz he have not such abilities.  
so 1 n 2 may be  
Linda or Cindy.  
or 2 n 3 may be Amby or Cindy  
Common is 2. so  
so  
cindy is second  
then 1 is Linda  
3 is Amby  
1. Linda  
2.  
Cindy  
3. Amby

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### Question - 70:

What is the minimum number of comparisons required to find the second smallest element in a 1000 element array?

#### Ans:

999 comparisons are required to find the second smallest element in an array.

[View All Answers](#)

### Question - 71:

An Engine length 1000 m moving at 10 m/s. A bird is flying from engine to end with x sec and coming back at 2x sec. Take total time of bird traveling as 187.5s. Find the to and fro speed of the bird?

#### Ans:

distancetravelled by the bird=2000m  
time taken=187.5 sec  
=375/2 sec  
speed is in the ratio of 1:2  
dividing the time in the ratio of 1:2  
time to=375/2(2/3)=125 sec  
speed=distane/time=1000/125=8 m/sec  
speed in thefro direction=16m/sec

[View All Answers](#)

### Question - 72:

Determine the distance between x and z intercept of the plane whose eqn is  $2x+9y-3z=18$ ?

#### Ans:

Sqrt of  $((d/a)^2+(d/c)^2)$   
d=18 a=2 b=9 c=-3  
 $(d/a)^2=81$   $(d/c)^2=36$   
Sqrt(81+36)=58.5

[View All Answers](#)

### Question - 73:

4 horses are tethered at 4 corners of a square plot of side 63 meters so that they just cannot reach one another. the area left ungrazed is (a)675.5



- (b)780.6
- (c)785.8
- (d)850.5

**Ans:**

A square field has a side of 63 meters. what is the area of this field.

[View All Answers](#)

**Question - 74:**

If A can copy 50 pages in 10 hours and A and B together can copy 70 pages in 10 hours, how much time does B takes to copy 26 pages?

**Ans:**

A can copy 50 pages in 10 hrs.

A can copy 5 pages in 1hr.(50/10)

now A & B can copy 70 pages in 10hrs.

thus, B can copy 90 pages in 10 hrs.[eqn. is  $(50+x)/2=70$ , where  $x \rightarrow$  no. of pages B can copy in 10 hrs.]

so, B can copy 9 pages in 1hr.

therefore, to copy 26 pages B will need almost 3hrs.

since in 3hrs B can copy 27 pages.

[View All Answers](#)

**Question - 75:**

30,28,25,20,34,28,? What is the next number in the above Sequence?

**Ans:**

ans=29

$3*10=30$

$4*7=28$

$3*8=25$

$4*5=20$

$3*11=33+1=34$

$4*7=28$

$3*9=27+2=29$

so like(one digrement and one ingrement valu than adding 1,2,3etc... Ingremented)

[View All Answers](#)

**Question - 76:**

Obtain 20 using two threes. (You can use any mathematical sign or operation)

**Ans:**

$(3!)c3=20$

$3!=3*2*1=6$

$6c3=(6*5*4)/(3*2*1)=20$

[View All Answers](#)

**Question - 77:**

One year payment to the servant is Rs. 200 plus one shirt. The servant leaves after 9 months and receives Rs. 120 and a shirt. Then find the price of the shirt.

A. Rs. 80

B. Rs. 100

C. Rs. 120

D. Cannot be determined

**Ans:**

Price of Shirt is RS.150.

Explanation:

Let d price of shirt be X

$12=200+X$

$9=120+X$

adding above two eqns we get

$X=150$

Logically if we put the above answer to the problem, we get the problem solved.....

[View All Answers](#)

**Question - 78:**

There are 5 Sub with equal high marks. Mark scored by a boy is 3:4:5:6:7 (Not sure). If his total aggregate if  $\frac{3}{5}$  of the total of the highest score, in how many subjects has he got more than 50%?

**Ans:**

It is cleanly mentioned in question that he has scored 3 subjects

[View All Answers](#)

**Question - 79:**

A mixture of 50 liters of milk and water contain 10% of water. How much water must be added to make water 20% in the given mixture?



**Ans:**

That's wrong, realize as you add water to the mixture, the volume of the mixture increases as well. Thus if you added 10 ltr of water to the 50 ltr mixture you would get a 60 ltr mixture. made of 45 ltr milk and 15 ltr water. That's 25% water in the mixture, not the 20% water being asked.

So, from the start:

m = Milk

w = Water

x = amount of water to add

For the mixture without any additional water:

w = 5 ltr

m = 45 ltr

Thus :

$$(45 + (5 + x)) - ((45 + (5 + x)) * 8/10) = (5 + x)$$

$$(50 + x) - ((50 + x) * 8/10) = (5 + x)$$

$$(50 + x) - (40 + (x * 8/10)) = (5 + x)$$

$$(50 + x) = (5 + x) + (40 + (x * 8/10))$$

$$50 + x = 45 + x + (x * 8/10)$$

$$50 = 45 + (x * 8/10)$$

$$5 = x * 8/10$$

$$5 * 10/8 = x$$

$$6.25 = x$$

The new mixture = 56.25 ltr

And 20% of 56.25 = 11.25 ltr = 5 (original amount) + 6.25 (amount of water added)

Thus, How much water must be added to make water 20% in the given mixture?

6.25 ltr water

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**Question - 80:**

After 10 years A will be twice the age of B before 10 years and now if the difference is 9 years between them then what is the age of B after 10 years?

**Ans:**

Let present ages of A and B be x and y respectively.

According to the question

$x+10 = 2(y-10)$  after solving we get

$x-2y = -30$  eq. (1)

$x-y = 9$  eq. (2) after solving above equation we will get there present ages as such A = 48 and B = 39.

After 10 years B will be 49 yrs

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**Question - 81:**

There are two poles of equal height 15mts. One cable with length 16mts is hanging between that two poles. The height from center of the cable to earth is 7mts then what is the distance between that two poles?

**Ans:**

No distance. because if the cable is in 7 mts above on ground means the 16 mts cable is placed up and down(8mts+8mts).

[View All Answers](#)

**Question - 82:**

All fat people are not dancers, food loving people are all fat .Find the contradictory statement?

**Ans:**

As we see on the reality show weight does not affect dancing. Their inner power motivates them, and also self confidence is require to face some problem during dancing. For Example, Bharati in Zalak Dikhilaja on Colors TV.

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**Question - 83:**

Ram travels by car from city A to city B heading towards north in 4 hours. From there he travels west to City C in 3 hours. Say his average speed is same during both the courses. Now from C he travels back to A in shortest path possible. How much time he would had taken to reach A from C?

**Ans:**

1 hrs

A is the south point, in the question towards north 4hrs and then to C point in west for 3hrs. So, from west to south the time required is 1 hrs

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**Question - 84:**

Pipes are laid by an oil company. If the company has to lay down 3km of pipes and each pipe is 25 meters long, calculate and print the number of pipes needed to cover the distance?

**Ans:**

I presume "cober" is a typo for "cover".

3km of pipes is 3000 meters.

3000 meters divided by each pipe length of 25 meters is 120.

Experience and prudence dictates that the oil company should acquire 126 pipes so that there will be no slow-down in the event of breakage or defects. But that's probably not really part of the question.

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**Question - 85:**

A, B and C start at the same direction to run around a circular stadium. A completes a round in 252 sec, B in 308 sec and C in 198 sec, all starting at the same point. After what time will they meet again at the starting point?

- a)26min 18sec
- b)42min 36sec
- c)45min
- d)46min 12 sec

**Ans:**

The answer is the L.C.M of 252, 308, 198  
=2772=46 min 12 sec

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**Question - 86:**

In the 20th century there is a year, which does not change if viewed upside down. Which is the year?

**Ans:**

Answer is 1661 which is same as 1661 after reversing..

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**Question - 87:**

Some boys are standing in a row, Suresh is 10th from right and Amar is seventh from left. If there are five boys in between Suresh and Amar, How many boys are there in the row?

**Ans:**

Ans 10 boys  
1(suresh) 2 3 4 5 6 7(amar) 8 9 10

[View All Answers](#)

**Question - 88:**

If we have to weigh 31 kgs of rice using only 1 kg stone. What are the minimum number of weighing operations required?

**Ans:**

5 weighing operations:

Rice	Counter weight
1kg	(1kg stone)
2kg	(1kg rice + 1kg stone)
4kg	(1+2+1)
8kg	(1+2+4+1)
16kg	(1+2+4+8+1)

total: 31kg rice

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**Question - 89:**

There is a book with some number of papers with numbers on the book were cut. So a boy counts the number of pages and given numbers to that book. He got 3 digit numbers 61 times. Then find the number of pages in that book?

**Ans:**

160 .....ie (100 to 160) therefore total 61 times  
so the answer is 160

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**Question - 90:**

When you reverse the digits of age of father you will get the age of son. One year ago the age of father was twice that of sons age. What are the current ages of father and son?

**Ans:**

Current Age:

Father Age should be - 73 Years

son age will be - 37 Years (Reversal of Father Age)

One Year Before:

Father Age is 72 Years(Double of Son's age)

Son Age is - 36 Years

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**Question - 91:**

There are 100 pieces of zigzags(don't bother of zig zag) which can be combined two at a time discretely or with a unit of some zigzag. How many such combination are necessary to make a single whole unit?

**Ans:**

Please share your answers.

[View All Answers](#)



### Question - 92:

Bobby weighs 160 lbs more than his sister maria. Their combined weight is 200lbs. How many lbs does bobby weigh?

#### Ans:

let Bobby's weight be  $x$  lbs.  
then Maria's weight will be  $(x-160)$  lbs.  
so,  $x+x-160=200$   
hence  $x=180$  lbs.

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### Question - 93:

A man walks at 4 km/hr on plain, then at 3 km/hr uphill and then returns through the same road at 6 km/hr downhill and at 4 km/hr on the plain. It takes altogether 6 hours. So what distance he covered in one way?

#### Ans:

total distance 2 reach up d top and return back =24km!!!  
let us consider flat land= $x$  km and slope land= $y$  km  
speed @ flat land=4kmph,==> 4km=1hr=>1km=1/4hr  
thus, for  $x$  km==> $x/4$ hr  
speed a@ walkin up @ slope=3kmph==>3km=1hr==>1km=1/3 hr  
thus for  $y$ km== $y/3$ hr  
speed returning back in slope=6kmph==>6km=1hr==>1km=1/6hr  
thus for  $y$ km== $y/6$ hr  
thus total hour for travel= $x/4 + y/3 + y/6 + x/4 =6$  hours  
solving ,  $x+y=12$ km  
thus total distance to go to top of hill and return back = $12+12=24$ km :)

[View All Answers](#)

### Question - 94:

A person is prisoner for 60 days. In that 60 days he earns rs.170.If he works he will get payed Rs.7 per day. If he doesnt work Rs.3 he should pay to that prison.Find out how many days he worked?

#### Ans:

He worked 35 days.  
He has not worked for 25 days  
Worked  $35*7=245$   
Less Not worked  $25*3=75$   
So  $245-75=170$

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### Question - 95:

Six swimmers A, B, C, D, E, F compete in a race. The outcome is as follows. i. B does not win. ii. Only two swimmers separate E & D iii. A is behind D & E iv. B is ahead of E, with one swimmer intervening v. F is a head of D?

#### Ans:

F D B C E A  
B does not win  
Only two swimmers separate E & D  
A is behind D & E  
B is ahead of E with one swimmer intervening  
F is a head of D

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### Question - 96:

Seven different toys are distributed among 3 children how many different ways are possible?

#### Ans:

There are 35 different ways to distribute.

[View All Answers](#)

### Question - 97:

A number when divided by D leaves a remainder of 8 and when divided by 3D leaves a remainder of 21 . What is the remainder left, when twice the number is divided by 3D?

- a) 13
- b) cannot be determined
- c) 3
- d) 42

#### Ans:

suppose the no. is a  
 $a = Dx + 8 \dots 1$   
 $a = 3Dy + 21 \dots 2$   
So from 1 & 2 we get  
 $D(x-3y) = 13$   
13 is prime so  $x-3y$  has to be 1  
let  $x = 4$  and  $y = 1$



We get  $a = 60$   
 $2a = 120$   
So 120 when divided by  $3D = 39$   
we get remainder as 3  
So answer is 3

[View All Answers](#)

### Question - 98:

Given a collection of points P in the plane, a 1-set is a point in P that can be separated from the rest by a line, i.e the point lies on one side of the line while the others lie on the other side. The number of 1-sets of P is denoted by  $n_1(P)$ . The minimum value of  $n_1(P)$  over all configurations P of 5 points in the plane in general position (i.e no three points in P lie on a line) is

- a) 3
- b) 5
- c) 2

**Ans:**

- a) 3

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### Question - 99:

What is the missing number in this series?  
8 2 14 6 11? 14 6 18 12

**Ans:**

The missing number is 5!! the given numbers r:

8,2,14,6,11,?,14,6,18,12

Now...

$8-6=2$ .

$14-8=6$ .

again..after the missing number  $14-8=6$  n  $18-6=12$ !

And so the missing number should be  $11-6=5$ !!

Hopefully the answer is 5...if any body comes up with another answer..plz do post it!!

[View All Answers](#)

### Question - 100:

If Sachin scores 76 more than Azhar, and Azhar and Robin's scores sum to 94 and Azhar scores 76 less than Dravid and Dravid scores 26 more than Robin. What was the total score done in the match?

**Ans:**

Sachin = Azhar + 76 eq. (1), Azhar + Robin = 94 eq. (2), Dravid = Azhar + 76 eq. (3), Dravid = Robin + 26 eq. (4).

Adding eq. (3) and (4), we get

$2\text{Dravid} = \text{Azhar} + \text{Robin} + 102$  eq. (5). Putting eq. (2) in eq. (5) we get

$2\text{Dravid} = 94 + 102 = 196$

So, Dravid =  $196/2 = 98$ .

Now solving one by one equation we get, Sachin = 98, Robin = 72, Azhar = 22, Dravid = 98.

Adding their scores we get 290 as total score.

[View All Answers](#)

### Question - 101:

If A wins a race against B by 10 meters in a 100-meter race. If B is ahead of A by 10 meters. Then they start running a race, who will win?

**Ans:**

They will make a tie, as the speed of A is such that it can run 10 meters more than B in the same time given to both. Hence if B is already leading A by 10 meters, then A running at a faster speed, will reach the final position along with B, at the same time, making a tie.

[View All Answers](#)

### Question - 102:

A company gives out bonuses based on the amount of income generated by their sales representatives per month. Once the income generated is greater than or equal to \$10,000 a bonus of 20% is given. If the income generated is greater than or equal to \$8,000 but less than \$10,000 a bonus of 15% is given. If the income generated is greater than or equal to \$5,000 then a 3% bonus is given. Read the income generated and print the bonus?

**Ans:**

Let  $x$  be the income generated.

if  $x \geq 10,000$  then bonus is 2000Rs therefore the income left is 8,000.

if  $x \geq 8,000$  and  $< 10,000$  then bonus is 1,200Rs therefore the income left is 6,800.

if  $x \geq 5,000$  then bonus is 150Rs therefore the income left is 4,850.

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### Question - 103:

The citizens of planet X are 8-fingered and have thus developed their decimal system in base 8. A certain street on planet X contains 1000 buildings numbered 1 to 1000. How many 3s are used in numbering these buildings?

**Ans:**

$64(1\text{'s place}) + 64(10\text{'s place}) + 64(100\text{'s place}) = 192$



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**Question - 104:**

What is the sum of 3 consecutive integers between 20 to 50?

**Ans:**

Plz share your answers.

[View All Answers](#)

**Question - 105:**

If there are 30 cans out of them one is poisoned if a man tastes very little he will die within 14 hours. Now mice are used to test in 24 hours, how many mice are required to find the poisoned can?

**Ans:**

5 mice ....  $2^5$  is 32..using combination

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**Question - 106:**

Complete the series. 4, -5, 11, -14, 22, \_\_\_\_\_?

**Ans:**

Answer is -27:

4 - (-5) = 9  
-5 - 11 = -16  
11 - (-14) = 25  
-14 - 22 = -36  
22 - (x) = 49  
-> x = -27

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**Question - 107:**

How many 9 digit numbers are possible by using the digits 1,2,3,4,5 which are divisible by 4 if the repetition is allowed?

**Ans:**

$5^{(n-1)} = 5^4 = 625$

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**Question - 108:**

Person A can complete the job in 10 days, Person B can complete the job in 20 days. If both together work then in how many days they will finish the work?

**Ans:**

13 days 8 hours

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**Question - 109:**

In a class of 150 students 55 speak English; 85 speak Telugu and 30 speak neither English nor Telugu.

1. How many speak both English and Telugu?
2. How many speak only Telugu?
3. How many speak at least one of the two languages from English and Telugu?

**Ans:**

Total=150  
English=55  
Telugu=85  
none/ neither English nor Telugu=30  
No. of Students who speak only one or both=150-30=120  
so, 120 stud's can speak english or telugu or both.  
then,  
No. of Stud's speak only English= 120-85(telugu)=35  
" " " " Telugu= 120-55=65  
Remaining 120-(65+35)=20 stud's can speak both.

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**Question - 110:**

There are 4 women having walking speed as 1min, 2min, 4min, 5min. If one or two women can cross bridge at a time with flashlight, then what is min. time required for 4 women to cross bridge without using flashlight?

**Ans:**

7 mins...

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**Question - 111:**

Given d value of  $\log 3.142$  &  $\log 3.143$ .  
To find the value of  $\log 3.141$

**Ans:**

Here given  
 $\log 3.142=x$ ,  $\log 3.143=y$ ;  
 $10^x=3.142$ -----eqn 1  
 $10^y=3.143$ -----eqn 2  
Subtracting eqn 2-1 ;  
.001=  $10^y-10^x$   
and again subtracting  
 $3.142-.001 =3.141$   
the answer is  $\log 3.141=\log( 10^x-(10^y-10^x))$   
 $\log 3.141=\log(2*10^x-10^y)$

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**Question - 112:**

How to solve the \$ and \* problem. if  $\$=1, *=0$   
value 1 doubles and shift to left place.(for ex:4= $\$**$ ,3= $\$ \$$ )  
even i dont know the question properly. but the same pattern question appeared in cts too.  
pls exp  
 $\text{LCM}(9,18,27)=$

**Ans:**

$\text{lcm}(9,18,27)=54$   
convert it into binary u vll get 110110  
express it in \$ \* as  $=\$ \$ \$ \$ *$

[View All Answers](#)

**Question - 113:**

Find the next number in the series 3, 4, 6, 9, 13,?

**Ans:**

18....  
procedure...  
3,4,6,9,13,.....  
steps: difference between 1st and 2nd no = 1  
difference between 1st and 2nd no = 2  
difference between 1st and 2nd no = 3 and so on....  
difference between 5th no and 4th no = 5  
ie:  $X - 13 = 5$   
 $X = 18$

[View All Answers](#)

**Question - 114:**

If the circumference of a circle is 100 units, Then what will the length of the arc described by an angle of 20 degree?

**Ans:**

WE KNOW THAT CIRCUMFERENCE =  $2 * 3.142 * \text{RADIUS}$   
AND THEN  $\text{RADIUS} = (\text{CIRCUMFERENCE})/2*3.142$   
 $\text{RADIUS} = 100/2*3.142$   
 $\text{RADIUS} = 50/3.142$   
SO , ANGLE = 20 DEGREES  
ANGLE = LENGTH/RADIUS  
 $(20 * 3.142)/180 = (\text{LENGTH}*3.142)/ 50$  CHANGE DEGREE TO RADIAN  
THEREFORE LENGTH =  $100/18 = 5.5$

[View All Answers](#)

**Question - 115:**

Three independent mechanisms A,B and C have been incorporated for fuel saving in a car producing respectively 30%, 20%, and 40% efficiency. Assuming that they operate independently, what is the net fuel efficiency achieved?

**Ans:**

In all of the three mechanisms out of 100%  
first loses 70% efficiency,  
second loses 80% of 30%  
efficiency of the first and third loses 60% of 80% of 30%  
Then the lack of efficiency is 60% of 80% of 30% = 14.4  
total efficiency is  $(100 - 14.4) = 85.6$  (ans)

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**Question - 116:**

600 to be seated. 10 benches are less. 2 more persons are required to be seated in each bench. How many benches.

209  
36



44  
60

**Ans:**

ans is 60 benches

let x=no of benches

y=no of students per bench

given

$$x*y=600, \text{-----(1)}$$

and given that 10 benches are less hence 2 students are seated more than per bench then

$$600=(x-10)*(y+2)$$

$$600=xy+2x-10y-20 \text{-----(2)}$$

since  $xy=600$

then eq(2) is

$$2x-10y=20$$

$$2x-10(600/x)=20$$

on solving

we get  $x=60$

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**Question - 117:**

What is the last digit of 7291?

**Ans:**

explanation:

$$7291 : 7+2=9 \text{ so } 9+1=10$$

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**Question - 118:**

A man ate 100 bananas in five days, each day eating 6 more than the previous day. How many bananas did he eat on the first day?

**Ans:**

x= banana on first day

for five corresponding days

$$x+x+6+x+12+x+18+x+24=100$$

$$5x+60=100$$

$$5x=40$$

$$x=8$$

first day=8

second day= $x+6=8+6=14$

third day=20

fourth day=26

fifth day=32

[View All Answers](#)

**Question - 119:**

What is the o/p of the following C-program?

```
Main()
{
Char str[7]="strings";
Printf("%s",str);
}
```

**Ans:**

This problem doesn't cause any kind of error!!! this is really tricky.. the size of the string "strings" is 7 but it terminates with a char. thus causing the total size to 8.

here in this case some absurd value will come as an output..

if the size of the array is less than 7 then it'll give the error "too many initialization"

and if the size is more than 7 then the output'll be perfect and "strings"

[View All Answers](#)

**Question - 120:**

Jalia is twice older than qurban. If jalia was 4 years younger, Qurban was 3 years older their difference between their ages is 12 years. What is the sum of their ages?

a) 67

b) 57

c) 36

d) none

**Ans:**

very simple logic is take jalia as 2x

qurban as x

then]

$$(2x-4)-(x+3)=12$$

so  $x=19$

so the present sum of ages is  $38+19=57$

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**Question - 121:**

There are two numbers in the ratio 8:9. if the smaller of the two numbers is increased by 12 and the larger number is reduced by 19 the ratio of the two numbers is 5:9.

Find the larger number?

**Ans:**

Let Smallest number be x & largest number be y.

so  $X/y=8/9$

$x=8/9y$

$(x+12)/(y-19)=5/9$

$(8/9y+12)/(y-19)=5/9$

$8/9y^2-19*8/9y+12y-12*19-5/9=0$

[View All Answers](#)

**Question - 122:**

What is the o/p of the following C-program?

```
Main()
{
Char *str[] = { "Frogs", " do", "not", "die", "they", "croak!" };
Printf("%d %d", sizeof(str), sizeof(str[0]));
}
```

**Ans:**

24,4(in unix)

$\text{sizeof(str[0])} = \text{storage address} - \text{inteter} = 4\text{bytes}$ ;

same as  $\text{sizeof(str)} = \text{storage address of 6} = 6*4\text{bytes}$ ;

[View All Answers](#)

**Question - 123:**

What is the maximum no. of arguments that can be given in a command line in C?

**Ans:**

for a program

```
int main(int argc, char **argv) ....
```

^^^^

$\text{sizeof(int)}$  number of arguments are possible

hence 32767 args are possible for a 32 bit computer

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**Question - 124:**

What is the value of the following series

$1/7 + 2/72 + 1/73 + 2/74 + 1/75 + \dots$

**Ans:**

Following the pattern, the 1's and 2's repeat, and the other numbers increase...

-

$2/74 + 1/75 + 2/76 + 1/77 + 2/78 + 1/79$ , etc.

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**Question - 125:**

In a pasture, the grass grows at an even rate. 40 cows can completely eat the grass in 40 days, if there are 30 cows the grass last for 60 days, for how long it is sufficient for 20 cows

1) 80

2) 90

3) 100

4) 120

5) none

**Ans:**

40 cow can completely eat the grass in 40 days it means there is  $40 * 40 = 1600$  cow are able to eat the food

for 20 cow =  $1600/20 = 80$  Days Ans

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**Question - 126:**

Mr. loyd wants to fence his Square shaped land of 120 Sqft each side. If a pole is laid every 12ft how many poles do he need?

**Ans:**

Area= 120 sq.ft. given

Each side= 10.954 ft.

Hence a 12ft. pole cannot be fenced.

[View All Answers](#)

**Question - 127:**

Two numbers 1361, 1468 when divided by certain number leaves remainder 7,11 respectively. Find the Number?



**Ans:**

Plz share answers.

[View All Answers](#)

**Question - 128:**

The age of the father is 18 years older to his son. After 5 years fathers age becomes thrice of his son, What is fathers present age?

**Ans:**

Father's present age = 22

Son's = 4

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**Question - 129:**

A circle is inscribed in a Triangle of side 6cm and a square is inscribed in the Circle. What is the area of square?

**Ans:**

Plz share answers.

[View All Answers](#)

**Question - 130:**

A sheet of paper has statements numbered from 1 to 20. For all values of n from 1 to 20, statement n says at most n of the statements on this sheet are false. Which statements are true and which statements are false?

**Ans:**

statement 19: nineteen statements are false. - true.

statements 1-18&20: - false

check:

19th statement says that nineteen statements are false. If it is true then remaining statements left are nineteen which must be false.  
hence one statement (i.e. 19th) is true.  
nineteen statements are false.

[View All Answers](#)

**Question - 131:**

Find the base where 310 can be written as 1234?

**Ans:**

base 6.

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**Question - 132:**

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

**Ans:**

avg age of 6 persons after 2 yrs will be 43,

hence present avg age of 6 persons should be 41,  $(= 246/6)$

when 7th person has joined avg is 45,  $(=315/7)$

hence 7th person's age will be  $(315- 246)= 69$  yrs.

[View All Answers](#)

**Question - 133:**

After 10 years A will be twice the age of B before 10 years.and now if the difference is 9 years between them then what is the age of B after 10 years?

**Ans:**

$A+10=2(B-10)$

&

$A-B=9$  i.e.  $A=B+9$ ,

now,  
putting it in earlier eqn.

$B+19=2B-20$

so  $B=39$ ,

after 10 years B will be  $39+10=49$ .





Ans =49

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### Question - 134:

The temperature at Bangalore is given by the function:  $-t^2/6+4t+12$  where  $t$  is the elapsed time since midnight. What is the percentage rise (or fall) in temperature between 5.00PM and 8.00PM?

**Ans:**

39%  
This is done by differentiating given function, because rate of change of any function is given by differentiation of the given function....

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### Question - 135:

Alok and Bhanu play the following min-max game. Given the expression  $N = 9 + X + Y - Z$  where  $X$ ,  $Y$  and  $Z$  are variables representing single digits (0 to 9), Alok would like to maximize  $N$  while Bhanu would?

**Ans:**

In such type of question will always sum upto a constant number when the game is played optimally.  
In d above question the value of  $x+y-z=11$ .  
therefore  $9+11=20$

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### Question - 136:

An INK bug starts jumping 1 meter to each direction north, south, east and west respectively. It marks a point in the new locations. It comes back to its original point after jumping in all directions. It again starts the same process from the newly drawn unique points. Totally how many points did the bug mark?

**Ans:**

consider any starting point, bug jumps to north makes a point then jumps south means comes to the prev point hence no new mark will be made then jumps east a new mark then west comes back to starting point. Hence started point+north point+east point=3 points

[View All Answers](#)

### Question - 137:

There are A, B teachers and C, D doctors. Find the possible no. of combinations that should not be repeated more than once?

**Ans:**

There are 15 possible combination  
 $4C1 + 4C2 + 4C3 + 4C4 = 15$   
One value missed is ACD in the above given 14 combinations.

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### Question - 138:

A carpenter is paid a contract fee of \$2000 for 3 days work. He hires 3 workers who work for 3 days at \$75 a day. Calculate and print the amount of money paid to each worker, the total paid to each worker, the total paid to all workers and the amount the carpenter is left with?

**Ans:**

Each 1 worker who works at \$75 per day for 3 days receives \$225.  
Three workers at \$225 each totals to \$675.  
The carpenter is left owing \$325.50 after paying Social Security, Medicare, Payroll taxes, Healthcare benefits, Workman's Compensation insurance, Unemployment insurance, License fees, Bond fees, State, Federal and Local Income tax, and Sales tax on materials.  
We won't get into the bribes necessary to get the inspector to show up in a timely manner and approve the work. That probably wasn't part of the question.

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### Question - 139:

A lady was out for shopping. She spent half of her money in buying A and gave 1 dollar to beggar. Further she spent half of her remaining money and gave 2 dollar to charity. Further she spent half of remaining money and gave 3 dollars to some children. Now she is been left with 1 dollar. How much money she had in the beginning?

**Ans:**

42 Dollars  
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### Question - 140:

There are three different boxes A, B and C. Difference between weights of A and B is 3 kgs. And between B and C is 5 kgs. Then what is the maximum sum of the differences of all possible combinations when two boxes are taken each time?

**Ans:**

Answer is 10  
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**Question - 141:**

Amal bought 5 pens, 7 pencils and 4 erasers. Rajan bought 6 pens, 8 erasers and 14 pencils for an amount which was half more than what Amal had paid. What % of the total amount paid by Amal was paid for pens?

**Ans:**

$$5 \times \text{pen} + 7 \times \text{pencil} + 4 \times \text{eraser} = x;$$

$$6 \times \text{pen} + 14 \times \text{pencil} + 8 \times \text{eraser} = x + 0.5x = 1.5x;$$

$$7 \times \text{pencil} = x - 5 \times \text{pen} - 4 \times \text{eraser}; \rightarrow \text{eq1}$$

$$14 \times \text{pencil} = 1.5x - 6 \times \text{pen} - 8 \times \text{eraser} \Rightarrow 7 \times \text{pencil} = (1.5x - 6 \times \text{pen} - 8 \times \text{eraser}) / 2; \rightarrow \text{eq2}$$

$$x - 5 \times \text{pen} - 4 \times \text{eraser} = 0.75x - 3 \times \text{pen} - 4 \times \text{eraser};$$

$$0.25x = 2 \times \text{pen};$$

$$1 \times \text{pen} = 0.125x;$$

thus 5pens =  $5 \times 0.125x$ ;  
 $= 0.625x$   
 $= 62.5\%$

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**Question - 142:**

Three companies are working independently and receiving the savings 20%, 30%, 40%. If the companies work combine, what will be their net savings?

**Ans:**

suppose total income is 100  
 so amount x is getting is 80  
 y is 70  
 z = 60  
 total = 210  
 but total money is 300  
 $300 - 210 = 90$   
 so they are getting 90 rs less  
 90 is 30% of 300 so they r getting 30% discount

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**Question - 143:**

What is the number of zeros at the end of the product of the numbers from 1 to 100?

**Ans:**

zeros are obtained when the product of numbers involves the number '5' or multiples of number '5'.  
 for example, the product of  $1 \times 2 \times 3 \times 4 \times 5 = 120$  i.e there is only one zero bcoz there is only one '5' and no other multiple of '5' is involved in multiplication.  
 similarly  $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10 = 3628800$  i.e there are 2 zeros in the end product bcoz there is a '5' and a '10' which is a multiple of '5' are involved.  
 however in  $25 \times 24 = 600$  you see 2 zeros in the end product bcoz 25 can be written as  $5 \times 5$ .  
 therefore the number of zeros in the end product of numbers 1 to 100 is 23

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**Question - 144:**

A telephone cable is to be run from a junction point on the bank of a river 900 meters wide to an office that is located 3000 meters downstream on the opposite bank. If the cost of laying cable under water is Rs. 5 per meter and that of laying overhead on land is Rs. 4 per meter, find the point downstream where the cable is to cut across the river.

- (a) 450
- (b) 1800
- (c) 2800
- (d) 2100
- (e) 2700

**Ans:**

1800. i think by laying this the total cost will be much less

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**Question - 145:**

The size of a program is N. And the memory occupied by the program is given by  $M = \sqrt{100N}$ . If the size of the program is increased by 1% then how much memory now occupied?

**Ans:**

given..  $M = 10N^{1/2}$ .....eqn (1)  
 $dM/dN = 10 \cdot 1/2 \cdot N^{-1/2}$   
 or,  $dM = 1/2(10 \cdot N^{-1/2})dN/N$   
 $dM = 1/2(M)dN/N$ .....frm eqn (1)  
 $dM/M = 1/2 \cdot dN/N$   
 put  $dN/N = 1\%$ .....frm d qs.  
 s,  $dM/M = .5\%$ .....Answer

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**Question - 146:**

One fast typist type some matter in 2hr and another slow typist type the same matter in 3hr. If both do combine in how much time they will finish?

**Ans:**

Faster one can do 1/2 of work in one hourslower one can do 1/3 of work in one hourboth they do  $(1/2 + 1/3 = 5/6)$  th work in one hour.so work will b finished in  $6/5 = 1.2$



hour i e 1 hour 12 min.

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**Question - 147:**

There are two candles of equal lengths and of different thickness. The thicker one lasts of six hours. The thinner 2 hours less than the thicker one. Ramesh lights the two candles at the same time. When he went to bed he saw the thicker one is twice the length of the thinner one. How long ago did Ramesh light the two candles?

**Ans:**

3hrs

$$1-h/6 = (1-h/4)2$$

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**Question - 148:**

Sometime after 10.00pm a murder took place. A witness claimed that the clock must have stopped at the time of the shooting. It was later found the position of both the hands were the same but their positions had interchanged. Tell the time of the shooting

- a)11.54
- b)11.54
- c)12.35
- d)10.50

**Ans:**

10:59pm, 11:54pm

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**Question - 149:**

An aircraft takes off from A (89° N Lat, 10° E Long) at 2.00 AM local time to B (32° N Lat, 70° W Long). If the flying time is 10 hours what is the local time of landing at B?

- (a) 5.40 AM
- (b) 4.00 AM
- (c) 6.40 AM
- (d) 7.00AM
- (e) 8.00AM

**Ans:**

ans---c

magnitude difference is 80 degree

for this duration time change

$80 \times 4$  equals 320 minute

5 hour 20 minute

for 12 hour journey

12- 5hour 20

that is

6 hour 40 minute ans

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**Question - 150:**

If  $A = 00001111$   $B = 00110011$   $C = 01010101$  Then find the value of  $[A \cup C] \cup B$  and express it in decimal?

**Ans:**

answer is 127

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**Question - 151:**

I lost Rs.68 in two races. My second race loss is Rs.6 more than the first race. My friend lost Rs.4 more than me in the second race. What is the amount lost by my friend in the second race?

**Ans:**

Ans : 41

first race loss = x

second race loss = y

Cond 1 :  $x+y = 68$

Cond 2 :  $y = x + 6$

Simultaneous eq. needs to be solved

[View All Answers](#)

**Question - 152:**

Juice contains water and orange pulp in the ratio of 3:1. For making 12l juice, How much Orange pulp will be required?

**Ans:**

in 1 lt.. of juice  $\frac{3}{4}$ th of water is present and  $\frac{1}{4}$  of orange...

in 12 lt.. of juice 9lt of water and 3 lt of orange is present

hence 3 pulps of orange are req for 12 lt juice :)

[View All Answers](#)



**Question - 153:**

2 oranges, 3 bananas and 4 apples cost Rs.15. 3 oranges, 2 bananas, and 1 apple costs Rs 10. What is the cost of 3 oranges, 3 bananas and 3 apples?

**Ans:**

it can be 15 bcoz

$$2x+3y+4z=15$$

$$3x+2y+z=10$$

adding

$$5x+5y+5z=25$$

$x+y+z=5$  that is for 1 orange ,1 banana and 1 apple requires 5Rs.

so for 3 orange ,3 banana and 3 apple requires 15Rs.

i.e.  $3x+3y+3z=15$ .....

[View All Answers](#)

**Question - 154:**

Gavaskar average in first 50 innings was 50. After the 51st innings his average was 51 how many runs he made in the 51st innings?

**Ans:**

Let number of runs made be x in 51th match

In all 50 matches gavaskars average is 50

$$\text{so current avg} = 50 \times 50 + x / 51 = 51$$

so value of 101 runs

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**Question - 155:**

Falling height is proportional to square of the time. One object falls 64cm in 2sec than in 6sec from how much height the object will fall?

**Ans:**

The falling height is proportional to the square of the time.

Now, the falling height is 64cm at 2sec

so, the proportional constant is  $= 64 / (2^2) = 16$ ;

so, at 6sec the object fall maximum  $(16 \times 6^2) \text{cm} = 576 \text{cm}$ ;

Now, the object may be situated at any where .

if it is  $> 576$  only that time the object falling 576cm within 6sec .Otherwise if it is situated  $< 576$  then it fall only that height at 6sec.

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**Question - 156:**

There is a six digit code. Its first two digits, multiplied by 3 gives all ones. And the next two digits multiplied by 6 give all twos. Remaining two digits multiplied by 9 gives all threes. Then what is the code?

**Ans:**

$$\text{1st 2 digit- } 111/3=37$$

$$\text{2nd 2 digit- } 222/6=37$$

$$\text{3rd 2 digit- } 333/9=37$$

so the number = 373737

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**Question - 157:**

If a factory manufactures 7200 bottles in 1 hour, how much does it manufactures in 1 second?

a)120

b)2

C)1200

d)60

**Ans:**

1hour 7200 Bottles

$$1 \text{ min } 7200/60 = 120 \text{ Bottles}$$

$$1 \text{ sec } 120/60 = 2 \text{ Bottles}$$

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**Question - 158:**

Paul, the octopus who has been forecasting the outcome of FIFA world cup matches with tremendous accuracy has now been invited to predict ICC world cup matches in 2011. We will assume that the world cup contenders have been divided into 2 groups of 9 teams each. Each team in a group plays the other teams in the group. The top two teams from each group enter the semi finals (after which the winner is decided by knockout).

However, Paul has a soft spot for India and when India plays any team, Paul always backs India. Alas, his predictions on matches involving India are right only 2 out of 3 times. In order to qualify for the semi finals, it is sufficient for India to win 7 of its group matches. What is the probability that India will win the ICC world cup?

**Ans:**

We have two chances to win the world cup.

Either India can win all 10 matches or Win 7 out of 8 group matches + win the semi final and final matches.

Case 1: To win all 10, probability is  $(2/3)^{10}$ .

Case 2: Probability of winning 7 matches out of 8 =  $(2/3)^7$  and

Probability of Losing the 1 match =  $1/3$ .

This process can occur in 8 ways.

$$\text{probability} = 8 \times ((2/3)^7 * 1/3)$$



To win semi final and final match probability is  $(\frac{2}{3})^2$   
Total probability =  $8 * (\frac{2}{3})^7 * \frac{1}{3} * (\frac{2}{3})^2 = \frac{8}{3} * (\frac{2}{3})^9$ .  
So total probability, Case 1 + Case 2 =  $(\frac{2}{3})^{10} + \frac{8}{3} * (\frac{2}{3})^9$

[View All Answers](#)

### Question - 159:

+ means \* and \* means / and / means % what is the value of  $2+3*5/7$ ?

**Ans:**

7 is the answer, because  $2*3=6, 6/5=1.2$  and  $1.2*7=7$

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### Question - 160:

How do you calculate your production per 100 man hours? What is the formula? Cycle Time (CT) is 171 seconds per unit for 1 type of product made in that work center and CT is 307 seconds for another type of product made in that same work center?

**Ans:**

Plz share answers.

[View All Answers](#)

### Question - 161:

A work is done by the people in 24 min. One of them can do this work alone in 40 min. How much time required to do the same work for the second person?

**Ans:**

Two people work together in 24 mins.

So, their one day work is

$$(1/A) + (1/B) = (1/24)$$

One man can complete the work in 40 mins

$$\text{one man's one day work } (1/B) = (1/40)$$

Now,

$$(1/A) = (1/24) - (1/40)$$

$$(1/A) = (1/60)$$

So, A can complete the work in 60 mins.

[View All Answers](#)

### Question - 162:

It cost a college Rs.0.70 a copy to produce a Program for the homecoming football game. If Rs.15,000/- was received for advertisements in the program, how many copies at Rs.0.50 a copy must be sold to make a profit of Rs.8000/- ?

**Ans:**

Plz share answers.

[View All Answers](#)

### Question - 163:

There are 4 balls and 4 boxes of colors yellow, pink, red and green. Red ball is in a box whose color is same as that of the ball in a yellow box. Red box has green ball. In which box you find the yellow ball?

**Ans:**

Ans is PINK

Yellow ---> Pink

Pink -----> Red

Red -----> Green

Green -----> Yellow

[View All Answers](#)

### Question - 164:

A 5 liter jug contains 4 liters of a salt water solution that is 15 percent salt. If 1.5 liters of the solution spills out of the jug, and the jug is then filled to capacity with water, approximately what percent of the resulting solution in the jug is salt?

**Ans:**

7.5 Percent

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### Question - 165:

A tree grows only  $\frac{3}{5}$  as fast as the one beside it. In four years the combined growth of the two trees is eight feet.

How much does the shorter tree grow in two years?

(a) Less than 2 feet

(b) 2 feet

(c)  $2\frac{1}{2}$  feet

(d) 3 feet

(e) more than 3 feet.

**Ans:**



even after 4 years the ratio remains d same..therefore:

$$x + (3/5)x = 8$$

$$\text{thus } x = 5$$

therefore the height of the shorter tree is 3 feet after FOUR years..

therefore after TWO years the height will be 1.5 ft..

[View All Answers](#)

### Question - 166:

What is the sum of all the four digit numbers formed using the digits 0, 1, 2 and 3. None of the two digits should be repeated?

**Ans:**

Process of solving

From these four digits '0' cannot be at first place to form four digit number

so we have 1, 2, or 3 can be at thousand's place

keeping one digit at thousand place can have 6 different four digit number

so that means

$$1000 * 6 + 2000 * 6 + 3000 * 6 = 36000$$

Now come to hundred's place we can have all four digit at this place, '0' will not contribute any thing to sum so in all four digits number 1,2,3 will be at 4 times on same place

so that means

$$100 * 4 + 200 * 4 + 300 * 4 = 2400$$

Now come to tenth's place ...same as hundred

so

$$10 * 4 + 20 * 4 + 30 * 4 = 240$$

same for unit place

$$1 * 4 + 2 * 4 + 3 * 4 = 24$$

in last if you add whole the total sum of all possible four digit number formed is 38664

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### Question - 167:

There is a point P on the circle. A and B started running in two constant different speeds. A in Clockwise and B in Anti-clockwise. A meet B First time 500m in Clockwise from P then second time 400m Anti-clockwise from P. B is yet to complete one round, What is the circumference of the circle?

**Ans:**

Plz share answers.

[View All Answers](#)

### Question - 168:

What is  $5x - x^2 = 0$  ?

**Ans:**

$$x^2 - 5x = 0$$

$$x(x-5) = 0$$

$$\text{so } x = 0 \text{ or } 5$$

[View All Answers](#)

### Question - 169:

Ten boxes are there. Each ball weighs 100 gms. One ball is weighing 90 gms.

i) If there are 3 balls (n=3) in each box, how many times will it take to find 90 gms ball?

ii) Same question with n=10

iii) Same question with n=9

**Ans:**

If n=3 then answer is:1

Take two balls and weigh. If both are equal then remaining ball is 90 gms

else if second is less than first one then second ball is 90gms

else if first is less than second on then first ball is 90 gms

If n=10 answer is: 3

Divide the n=10 into two 5-sub groups

compare the both the groups

If 1group < 2group then 90 gms ball is present in the first group

else it is present in the second group.

Take the less weight group and divide it into 2-2-1 subgroup.

Now compare the 2-subgroups first. If first 2-subgroup is less than the second 2-subgroup then 90gms is present in the first 2-subgroup otherwise it is present in the second 2-subgroup. If both are equal then the remaining 1-subgroup ball is 90gms ball.

Now take less weight subgroup of 2-subgroups. Now compare the two balls that are existing in the 2-subgroup group. Then we can find the 90 gms ball.

So we require 3 chances for detection of 90 gms ball when n=10

If n=9 then answer is :3

[View All Answers](#)

### Question - 170:

There are two square rooms. Both are of same height. The second room is 5m longer than the first room. The rate for papering the walls is 10 paise per square meter. The total cost for papering the rooms is Rs 60 and Rs 80. What is the height of the rooms?

**Ans:**



A house will have four walls...

papers used only for construction of walls!!!!

1st House:  $4 * a \text{ (side)} * h \text{ (height)} * 10 = 60$  =====>  $4ah = 6$  --(1)

Given 10 paise reqd...per construction of 1 square meters

2nd House:  $4 * (a+5) \text{ (side)} * h \text{ (height)} * 10 = 80$  =====>  $4ah + 20h = 8$  ---(2)

Area formula will be horizontal side\*vertical height

the plane of wall will be along it's height!..

Solving (1) & (2) we get  $20h = 2$ .

Hence,  $h = 0.1$  m

[View All Answers](#)

### Question - 171:

In a 60 liters of mixture of spirit and water is 7 %. In order to make water 19%, how much water should be added?

**Ans:**

$60 * 7 / 100 = 4.2$  liter water right now thenow we assume we consider p liter water to make it 19% so  $(60+p) * 19 / 100 = p + 4.2$  so  $p = 8.8$

[View All Answers](#)

### Question - 172:

Which one of the following has the highest standard deviation?

a 1,0,1,0,1

b 1,1,1,1,1

c -1,-1,-1,-1,-1

**Ans:**

Standard deviation (sum of all terms)/(no of terms)....

so, option b has highest S.D

$(1+1+1+1+1) / 5$  EQUALS TO 1

[View All Answers](#)

### Question - 173:

Peter and Paul were friends. After six years Paul will be twice as old as Peter was when peter was as old as Paul. If sum of their ages is 36 find the age of Peter?

**Ans:**

Peter + Paul = 36

in 6 years

Peter + 2 Peter = 42

So

Peter = 14 (in 6 years)

So now

Peter = 8

and

Paul = 22 (36-8)

[View All Answers](#)

### Question - 174:

If the area of a square has increased by 60%, by what percentage has its side increased?

**Ans:**

answer, about 26%

square of 10cm by 10cm equal 100cm<sup>2</sup>

for it to increase by 60% then the new size is 160cm<sup>2</sup>

so each side would now be about 12.6cm by 12.6 cm

then each side went from 10 to 12.6cm for an increase of about 26%

[View All Answers](#)

### Question - 175:

Tanyas grandfather was 8 times older to her 16 years ago. He would be three times of her age 8 years from now. Eight years ago what was ratio of Tanyas age to her grandfather?

**Ans:**

at -16 the ratio is 8

at -8 the ratio is ?

at 0 the ratio is ?

at +8 the ratio is 3

so the ratio went down from 8 to 3 (5times) in 3 period of 8 year.

i.e. every 8 year is goes down by 5/3

so after one period of 8 years it was  $24/3 - 5/3 = 19/3$  or 6.33

so 8 years ago he was 6.33 years older than her.

[View All Answers](#)

### Question - 176:

The storage space required is given by the function  $P(N) = 4000 \hat{a}^{\hat{s}N}$ , where N is the number of boxes used. Find the percentage change in storage if the number of boxes is increased by 1%.

(a) 0.75%



- (b) 0.25%
- (c) 0.5%
- (d) 1%
- (e) 2%

**Ans:**

New no. of boxes =  $101n/100$   
increase =  $4000/n - 400000/101n = 4000/n * 1/101$   
ans =  $4000/n * 1/101 / 4000/n$   
=  $1/101 * 100$   
= 1%

[View All Answers](#)

**Question - 177:**

A goat is tied to one corner of a square plot of side 12m by a rope 7m long. Find the area it can graze?

**Ans:**

The correct answer is 38.5. this can be found out using area of sector formula =  $\pi * R^2 * \theta / 360 = \pi * 7^2 * 90 / 360 = 38.5 \text{sqm}$

[View All Answers](#)

**Question - 178:**

All persons know either swimming or rowing. There are 14 persons who know only swimming and 14 persons who know only rowing. 8 tickets sold for rowing. How many people are there for swimming?

**Ans:**

6 swimming people

[View All Answers](#)

**Question - 179:**

Sum of three consecutive nos is

- A)10
- B)22
- C)25
- D)30
- E)40

**Ans:**

9 plus 10 plus 11 equals 30

[View All Answers](#)

**Question - 180:**

Age of a person increased by 10% from last year. What is the current ratio from last year.

- a.1:10
- b.11:10
- c.11:12

Which one is correct?

**Ans:**

b) 11 to 10

[View All Answers](#)

**Question - 181:**

If a company produces 15 different model of TV sets, 2 inches screen and 4 different model of 4 inch screen size then how many model should vendor has for all the model?

**Ans:**

The answer is 9

[View All Answers](#)

**Question - 182:**

Ten boxes are there. Each ball weighs 100 gms. One ball is weighing 90 gms.

- i) If there are 3 balls (n=3) in each box, how many times will it take to find 90 gms ball?
- ii) with n=10
- iii) with n=9

**Ans:**

6 Chances.

First keep 5 boxes in each in a balance. Then the one with low weight. Take it divide 5 boxes as 2-2-1.

Keep 2-2 in each of balance. If both weigh same... then take the one left. In which we have 3 balls.

1-1-1

Keep any 2 balls in balance. If both weigh the same. The one left is of low weight..!

Else if both don't weigh the same then the one with low weight is the one req. as such is for n 10.

[View All Answers](#)





**Question - 183:**

2 trees are there, One grows at  $\frac{3}{5}$  of the other. In 4 years total growth of the trees is 8 ft. What growth will smaller tree have in 2 years?

**Ans:**

THE BIG TREE GROWS 8FT IN 4 YEARS=>THE BIG TREE GROWS 4FT IN 2 YEARS.WHEN WE DIVIDE 4FT/5= $\frac{8}{5}$ =>2.4

[View All Answers](#)

**Question - 184:**

Find the Value and Express in Decimal

If 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

Then find the value of [A U C] U B and express it in decimal

**Ans:**

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 (OR-ing)

-----  
0 1 1 1 1 1 1 1

[View All Answers](#)

**Question - 185:**

If  $5x^2 + 14x + k = 0$  having two reciprocal roots find the value of k?

**Ans:**

product of roots of eqn  $ax^2 + bx + c = 0$  is  $\frac{c}{a}$

here product of roots = 1

=>  $\frac{k}{5} = 1$

=>  $k = 5$

[View All Answers](#)

**Question - 186:**

What is the size of integer variable in JAVA?

**Ans:**

4 bytes

[View All Answers](#)

**Question - 187:**

Suppose in a pot 20 cards are there label 1-20 on that. Find the probability of getting two prime?

**Ans:**

$\frac{8}{20} = \frac{2}{5}$

[View All Answers](#)

**Question - 188:**

In some game 139 members have participated every time one fellow will get bye what is the number of matches to choose the champion to be held?

**Ans:**

the answer is 138 matches

explanation:since one player gets a bye in each round,he will reach the finals of the tournament without playing a match.

therefore 137 matches should be played to determine the second finalist from the remaining 138 players(excluding the 1st player)

therefore to determine the winner 138 matches shd be played.

[View All Answers](#)

**Question - 189:**

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

**Ans:**

for 160 miles time taken is 330 minutes

for 80 miles time taken ?

160miles---330 minutes

80-----x minutes

where  $x = \frac{(80 \times 330)}{160} = 165$  minutes

[View All Answers](#)

**Question - 190:**

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

**Ans:**

$(x+10) = \frac{(x+35)}{2}$



solving the eqn we get  $x=15$

[View All Answers](#)

**Question - 191:**

In  $8 \times 8$  chess board what is the total number of squares refers odel

**Ans:**

We discovered that there are 204 squares on the board We found that you would add the different squares -  $1 + 4 + 9 + 16 + 25 + 36 + 49 + 64$ .

Also in  $3 \times 3$  tic tac toe board what is the total no of squares

Ans 14 ie  $9+4$ (bigger ones)+1 (biggest one)

If you ger  $100 \times 100$  board just use the formula

the formula for the sum of the first n perfect squares is

$n \times (n + 1) \times (2n + 1)$

6

if in this formula if you put  $n=8$  you get your answer 204

[View All Answers](#)

**Question - 192:**

A man spent  $1/6$ th of his life in child hood,  $1/12$ th of his life as youngster and  $1/7$ th of his life as a bachelor. After five years of his marriage a son was born to him. The son died four years before the father died and at the time of his death his age was half the total age of his father. What is the age of the father?

**Ans:**

Here is the solution in details:

Say father's age is x,and son's age is y.we have two variables.We have two equations also.As son's age is half the father's age.So  $y=x/2$  or

$x=2y$ -----(1)

Now you can read the question like this also.

Next father has spent  $x/6$ th of his life in child hood, $x/12$ th of his life as youngster and  $x/7$ th of his life as a bachelor,then 5yrs of marriage,then had a son,then son dies,after 4yrs father dies.It gives us this following equation.

$x/6+x/12+x/7+5+y+4 = x$  -----(2)

Solving (1) & (2) the equations:

=>  $Y=42$

=>  $X=84$

[View All Answers](#)

**Question - 193:**

When  $\frac{3}{4}$  of a units digit is added to the tens digit of a two number, the sum of the digits 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

**Ans:**

Let the given no. be xy

$(\frac{3}{4})y+x=10$

$(\frac{1}{4})x+y=9$

By solving these two eqns  $xy=48$

[View All Answers](#)

**Question - 194:**

Anand finishes a work in 7 days, Bittu finishes the same job in 8 days and Chandu in 6 days. They take turns to finish the work. Anand on the first day, Bittu on the second and Chandu on the third day and then Anand again and so on. On which day will the work get over?

- a) 3rd
- b) 6th
- c) 9th
- d) 7th

**Ans:**

Ans is d) 7th day

In d 1st day Anand does  $1/7$ th of total work similarly,

Bithu does  $1/8$ th work in d 2nd day

hence at d end of 3 days, work done =  $1/7+1/8+1/6=73/168$

remaining work =  $(168-73)/168 = 95/168$

again after 6 days of work, remaining work is =  $(95-73)/168 = 22/168$

and hence Anand completes the work on 7th day.(hope u understood.)

[View All Answers](#)

**Question - 195:**

Find the point of intersection of

$15x+9y=15$

$5x+3y=21$

**Ans:**

they are parallel lines. They don't have any point of intersection



[View All Answers](#)

**Question - 196:**

If  $\log(3.14)$  and  $\log(3.16)$  are given, What is the value of  $\log(3.15)$ ?

**Ans:**

$$\begin{aligned} \log(3.15) &= \log(3.14 + 0.01) \\ \log(3.15) &= \log(3.16 - 0.01) \\ \log(3.15) * \log(3.15) &= \log(3.14) * \log(0.01) * \log(3.16) / \log(0.01) \\ \log(3.15) * \log(3.15) &= \log(3.14) * \log(3.16) \\ 2 * \log(3.15) &= (\log(3.14) * \log(3.16)) \\ \log(3.15) &= (\log(3.14) * \log(3.16)) / 2 \end{aligned}$$

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**Question - 197:**

A family, planning a weekend trip, decides to spend not more than a total of 8 hours driving. By leaving early in the morning, they can average 40 miles per hour on the way to their destination. Due to the heavy Sunday traffic, they can average only 30 miles per hour on the return trip. What is the farthest distance from home they can plan to go?

- (a) 120 miles or less
- (b) Between 120 and 140 miles
- (c) 140 miles
- (d) Between 140 and 160 miles
- (e) 160 miles or more

**Ans:**

Since in 8 hour they will travel =  $8 * 40 = 320$  but due to traffic they will travel is  $8 * 30 = 240$  means 80 less than that. so btwn 240

[View All Answers](#)

**Question - 198:**

How to solve questions which involves arithmetic operations on alphabets like

```

xxxx
yyyy
+zxxx
=====
yxxxz
=====

```

**Ans:**

```

R4 R3 R2 R1
x x x x
y y y y
+ z z z z
-----

```

```

y x x x z
A4 A3 A2 A1
-----

```

FIRST EQ: FROM ROW R1

$$X+Y+Z=10+Z \text{ -----} \rightarrow (1)$$

FROM ROW R2:

$$X+Y+Z+1= X+10;$$

$$\text{THEN } Y+Z=9 \text{ -----} \rightarrow (2)$$

FROM ROW R3:

$$\text{SAME AS ABOVE R2 } Y+Z=-1;$$

FROM ROW R4:

HERE Y VALUE IS 1.

SUM OF X,Y,Z IS LESS THEN 20 WHY BECAUSE X,Y,Z VALUES ARE BELOW TEN AND NOT REPEATABLE.

\* $X+Y+Z < 20$  MEANS  $20=10$  SO WE CAN GET Y VALUE FROM

ROW R4 : Y IS THE CARRY OF  $(X+Y+Z+1)$  THIS IS LESS THEN 20 GREATER

THAN 10 SO WE CAN TAKE  $Y=1$ ;

SUBSTITUTE Y VALUE IN EQ (1):  $X+Y+Z=Z+10$ ;

$$1+X=10;$$

THEN

$$X=9;$$

THEN SUBSTITUTE Y VALUE IN EQ(2):

$$Y+Z=9;$$

$$1+Z=9;$$

THEN  $Z=8$ ;

RESULT IS:  $X=9, Y=1, Z=8$ .

[View All Answers](#)

**Question - 199:**

One of the following is my secret word: AIM DUE MOD OAT TIE. With the list in front of you, if I were to tell you any one of my secret word, then you would be able to tell me the number of vowels in my secret word. Which is my secret word?

**Ans:**

ANS is TIE because .....TIE shows some thing about 2 things (like TIE match tells abt 2 teams) And since it contains 2 vowels

[View All Answers](#)



### Question - 200:

The size of the float data type in C language is

#### Ans:

Size is 4 byte  
Range:  $3.4e+38 \sim 3.4e-38$

[View All Answers](#)

### Question - 201:

A stamp collector arranges his stamps during his free time. When he arranges his stamps in pairs, there is one stamp left. It is the same when he arranges the stamps in groups of 3, 4, 5 and 6. Now, how many stamps will he be left with when he arranges them in groups of 8?

#### Ans:

Total stamps are the l.c.m of 3,4,5,6 i.e 60 and 1 is the remainder in all the cases.. so the total stamp is  $60+1=61$   
now deviding 61 with 8 leaves the remainder 5  
so if he want to make it a group of 8 he ll be having 5 stamps left

[View All Answers](#)

### Question - 202:

1. Select the odd one out a. Oracle b. Linux c. Ingress d. DB2
2. Select the odd one out a. WAP b. HTTP c. BAAN d. ARP
3. Select the odd one out a. LINUX b. UNIX c. SOLARIS d. SQL SEVER
4. Select the odd one out a. SQL b. DB2 c. SYBASE d. HTTP

#### Ans:

- 1.(c)Ingress
- 2.(c)BAAN
- 3.(c)solaris
- 4.(d)HTTP

[View All Answers](#)

### Question - 203:

Find out the total numbers between 1 to 999 that are neither divisible by 8 nor by 12?

#### Ans:

$124+83-42=166$

[View All Answers](#)

### Question - 204:

In two dimensional array X(7,9) each element occupies 2 bytes of memory.If the address of first element X(1,1)is 1258 then what will be the address of the element X(5,8)?

#### Ans:

here, the address of first element  $x[1][1]$  is 1258 and also 2 byte of memory is given.now, we have to solve the address of element  $x[5][8]$ , therefore,  $1258+ 5*8*2 = 1258+80 = 1338$  so the answer is 1338.

[View All Answers](#)

### Question - 205:

if  $a^x=b^y=c^z$  and  $b^2=ac$  then find  $x+z/xz=?$

#### Ans:

$a^x=b^y=c^z=k$ (say)  
then,  
 $a=k^{1/x}, b=k^{1/y}, c=k^{1/z}; \dots \dots (1)$   
given  $b^2=ac$   
 $\{K^{1/y}\}^2=k^{1/x}*k^{1/z};$   
 $k^{2/y}=k^{1/x+1/z}$   
 $2/y=1/x+1/z$   
 $2/y=x+z/xz$   
hence the answer is  $2/y$  "100% it is correct answer"

[View All Answers](#)

### Question - 206:

What is the minimum no of coins of the same size that can be placed on a table so that each coin touches only three, others? All coins must lie flat on the table. What will be the arrangement of the coins?

#### Ans:

I belive the answer is 20. 5 sets of four diamonds which when put together form a circle. Hard to eplain without a picture. The each daimond has no space in the middle. Two coins are touching three others and the other two coins are only touching two. But when the ends of these diamonds are put together each coin is touching only 3 others.

[View All Answers](#)

### Question - 207:



In a office, 30% are supervisors, 40% are male employees, 60% of supervisors are male. Probability that a random chosen employee is a male or a female?

**Ans:**

I would say probability of randomly chosen a male employee is 22% while that of female is 48%.

Base on my understanding of the question,

let 'x' be the total employee (supervisors and ordinary employees)

supervisor: 30% of 'x' = 0.3x

male supervisors: 60% of 0.3x = 0.18x

and female supervisor: 40% of 0.3x = 0.12x

total male employees: 40% of 'x' = 0.4x

therefore, number of ordinary male employee = 0.4x - 0.18x = 0.22x

=> P(male employee) = 0.22x/x = 0.22

i.e. probability of male employee is 22%

total female employees: 60% of 'x' = 0.6x

therefore, number of ordinary female employee = 0.6x - 0.12x = 0.48x

=> P(female employee) = 0.48x/x = 0.48

i.e. probability of female employee is 48%

I hope I've interpreted the question correctly.

[View All Answers](#)

**Question - 208:**

One Rectangular Plate with length 8 inches, breadth 11 inches and 2 inches thickness is there. What is the length of the circular rod with diameter 8 inches and equal to volume of rectangular plate?

**Ans:**

Given volume of the rectangular plate is equal to volume of circular rod (cylinder).

diameter of the circular rod is 8 inches

so, radius is 4 inches

length of the rectangular plate is 8 inches

breadth of the rectangular plate is 11 inches

width of the rectangular plate is 2 inches

volume of the rectangle is length\*breadth\*width

volume of the cylinder is PI\*radius\*radius\*length

so,

volume of the rectangle = volume of the cylinder

$$8 * 11 * 2 = (22/7) * 4 * 4 * \text{length}$$

$$\text{length} = 8 * 11 * 2 * (7/22) * (1/4) * (1/4)$$

$$\text{length} = 1232/352$$

$$\text{length} = 3.5 \text{ inches}$$

[View All Answers](#)

**Question - 209:**

Low temperature at the night in a city is 1/3 more than 1/2 hinge as higher temperature in a day. Sum of the low temp and high temp is 100 c. then what is the low temp?

**Ans:**

let x be the low temp at night..

and y be the high temp..in day

from the given condition

$$1/2(x) = 1/3(y)$$

$$\therefore 3x = 2y \text{-----(2)}$$

and also given that

$$x + y = 100 \text{-----(1)}$$

from equation 1 and 2 we get. the answer..

$$x = 40,$$

so, low temperature is 40 c

[View All Answers](#)

**Question - 210:**

One circular array is given (means memory allocation takes place in circular fashion) dimension (9X7) and starting address is 3000, What is the address of (2,3)?

**Ans:**

I can't draw the picture here so giving the formula

The address would be

B(base address) + [(i-Row\_start)\*(Column\_limit-Column\_start+1) + (j-Column\_start)]\*width provided that array index start from (1,1).

Here in the formula i, j are the asked index whose address is needed and width is 8 bit as it is integer array.

Now putting value we get

$$3000 + [(2-1)*(7-1+1) + (3-1)]*8 = 3072$$

Please reply to this answer. whether it is correct or not.

If the indexing start from 0,0 then different answer would come out.

[View All Answers](#)

**Question - 211:**

In 80 coins 1 coin is counterfeit which is minimum no. of weighings to find out counterfeit coin?

**Ans:**

split the coin into 26 26 26.....



take any 2 26 coins....  
if it is = the odd coin is in remaining 26,  
if any one has less or more wt, go for next and find it..  
so it takes 2 trials.....  
9,9,9  
3,3,3  
1,1,1.....  
5 trials or 6 trials

[View All Answers](#)

### Question - 212:

Suppose + means \* and \* means / and / means % what is the value of  $2+3*5/7$ ?

**Ans:**

I think answer is 6. Below is my explanation  
step 1 -  $2 * 3 / 5 \% 7$   
step 2 -  $2 * 3 / 1$  as  $(5 \% 7 = 1)$   
step 3 -  $2 * 3$  (as  $3 / 1 = 3$ )  
step 4 - 6 (as  $2 * 3 = 6$ )  
The precedence order is % / \* if i am not wrong

[View All Answers](#)

### Question - 213:

Find out what day of the week was January 12, 1979?

**Ans:**

when we move down in yearwise a day decreases. but when a leap year comes 2 days gets decreased..for e.g.  
12 jan 2008 --- saturday  
12 jan 2007 --- friday  
12 jan 2006 --- thursday  
12 jan 2005 --- wednesday  
12 jan 2004 --- monday..  
so in 4 years five days gets reduced... so in this manner we can find out in which year what day was on 12 jan..  
ANSWER ----- it was friday on 12 jan 1979.....

[View All Answers](#)

### Question - 214:

An optical cable is to be run from a junction point on the bank of a river 900 meters wide to an office that is located 3000 meters downstream on the opposite bank. If the cost of laying cable under water is Rs. 5 per meter and that of laying overhead on land is Rs. 4 per meter, find the point downstream where the cable is to cut across the river.

- (a) 450
- (b) 3900
- (c) 1800
- (d) 2100
- (e) 2700

**Ans:**

1) 450  
Since cost of putting cable on land is less than that under water.  
So we lay cable mostly on ground so best solution is 450

[View All Answers](#)

### Question - 215:

2 pencils cost 8 cents, then 5 pencils cost how much?

**Ans:**

1 pencil cost  $8/2 = 4c$   
5 pencil cost  $5*4=20c$

[View All Answers](#)

### Question - 216:

A father is willing his estates like this. If a boy is born, wife has 1/3 part and remaining for boy. If a girl is born, wife has 2/3 and remaining for the girl. But twins (Boy + Girl) are born. What is the share that the daughter would get?

**Ans:**

The daughter will remaining get 2/3 cos the son got 1/3.

[View All Answers](#)

### Question - 217:

My flight takes off at 2pm from a place at 18N 40E and landed 10 Hrs later at a place with coordinates 36N40W. What is the local time when my plane landed?

- 1. 8.00pm
- 2. 6.00pm
- 3. 12.00am



4. 6.40pm

**Ans:**

it must be done as follows,  
subtract the two i.e;  $36n40w - 18n40w = 18$   
now multiply 18 with 4 =  $72\text{min} = 72/60\text{hr}$   
now we must add or subtract this  $72/60\text{hr}$  to 2p.m to get the ans. i dont remember exactly whether to add or subtract.

[View All Answers](#)

**Question - 218:**

What is the probability of writing correct addresses to 4 letters to be posted?

**Ans:**

Probability is  $1/24$ .

[View All Answers](#)

**Question - 219:**

There are 11 lines in plane. How many intersections (Maximum) can be made?

**Ans:**

Max intersections possible is 55.

[View All Answers](#)

**Question - 220:**

In a company 30% are supervisors and 40% employees are male if 60% of supervisors are male. What is the probability? That a randomly chosen employee is a male or female?

**Ans:**

supervisors are also employees they are 30% in total employees. 40% of employees are male, no matter they are supervisors or non supervisors ,probability that choosen employee should be male is  $40C1/100C1$  i.e. 0.4 some body has given prob is 1. there are not fully male how can it be?

[View All Answers](#)

**Question - 221:**

A man has to get air-mail. He starts to go to airport on his motorbike. Plane comes early and the mail is sent by a horse-cart. The man meets the cart in the middle after half an hour. He takes the mail and returns back, by doing so, he saves twenty minutes. How early did the plane arrive?

**Ans:**

Plane comes 20 min early than seduled because let assume plane's arrival time is 2:40 and distance b/w home and airport is 40 min so, man starts at 2:00 and at 2:20 he reach at middle and plane arrive now at 2:30 he meet horce cart who has his airmail. Now, he come back at home at 3:00 but if plane will be on time than he will reach at airport at 2:40 and come back home at 3:20 so, this way he saves 20 min because of early arrival of plane

[View All Answers](#)

**Question - 222:**

Scott is jogging from point X to Y. 30 minutes later his friend Garrett who jogs 1 mile per hour slower than twice Scott's rate starts from the same point and follows the same path. If Garrett overtakes Scott in 2 hours, how many miles will Garrett have covered?

- a)  $11/5$
- b)  $10/3$
- c) 4
- d) 6

**Ans:**

b)  $10/3$

[View All Answers](#)

**Question - 223:**

3 men finish painting a wall in 8 days. Four boys do the same job in 7 days. In how many days will 2 men and 2 boys working together paint two such walls of the same size?

- a)  $6\frac{6}{13}$  days
- b)  $3\frac{3}{13}$  days
- c)  $9\frac{2}{5}$  days
- d)  $12\frac{12}{13}$  days

**Ans:**

3 men -> 8 days  
as men decrease => days increase  
=> 1 man -> 24 days => 1 man's 1 day work =  $1/24$   
4 boys -> 7 days  
=> 1 boy -> 28 days => 1 boy's 1 day work =  $1/28$   
so 2 men + 2 boys 1 day work =  $2/24 + 2/28 = 1/12 + 1/14 = 13/84$   
so 2men + 2boys finish  $13/84$  of work in 1 day  
so days to finish total work =  $84/13$  i.e  $6\frac{6}{13}$

[View All Answers](#)

**Question - 224:**



A clock was set right at 5 am then it loses 16 minutes every day, on the 4th day when it shows 10 am, What is the exact time?

**Ans:**

the ans is

11:7:20 ( hour/minute/sec)

explanation::

in 4 day time loose by  $16 \times 4$  equal 64 minute

10 am that is exceed 5 hour then it looses  $16/24 \times 5$  means 200 sec

dat is 3 minute 20 sec

so total time eqals 67 minute 20 sec

so timing 11:7:20

[View All Answers](#)

**Question - 225:**

In the following figure:

A        D  
B    G    E  
C        F

Each of the seven digits from 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 is:

- Represented by a different letter in the figure above.
  - Positioned in the figure above so that  $A \times B \times C, B \times G \times E,$  and  $D \times E \times F$  are equal.
- Which digit does G represent?

**Ans:**

As given

$A \times B \times C = B \times G \times E = D \times E \times F$

hence

$A \times B \times C = B \times G \times E$ -----(1)

$B \times G \times E = D \times E \times F$ -----(2)

from 1

$\Rightarrow G = AC/E$

and from 2

$\Rightarrow G = DF/B$

since

$AC/E = DF/B$ ------(3)

Here we have 0 to 9 numbers so we arrenge the numbers in equation 3 as it satisfy

so  $3 \times 6/9 = 2$  so value of A and C should be 3 and 6, And  $E = 9$

And  $1 \times 8/4 = 2$  n value of D and F should be 1 and 8 and  $B = 4$

so the value of G is 2

[View All Answers](#)

**Question - 226:**

A, B, C, and D tells the following times by looking at their watches. A tells it is 3 to 12. B tells it is 3 past 12. C tells it is 12:2. D tells it is half a dozen too soon to 12. No two watches show the same time. The difference between the watches is 2,3,4,5 respectively. Whose watch shows maximum time?

**Ans:**

A shows 11:57, B shows 12:03, C shows 12:02, and D shows 11:06 therefore,max time is for B

[View All Answers](#)

**Question - 227:**

Fifty minutes ago if it was four times as many minutes past 3o clock, how many minutes is it to 6 o clock?

**Ans:**

difference between 3o clock and 6 o clock is 180 minutes.

so the difference between current time and 6 o clock be x.

so  $x + 50 + 4x = 180$

$5x = 180 - 50$

$x = 26$

so the current time is 5:34

[View All Answers](#)

**Question - 228:**

What is the equivalent compound ratio of 5:6::7:10::65

**Ans:**

5:6::7:10::65 mean,

$(5/6) = (7/10) = 65,$

taking LCM n v get,

50:42:3900

[View All Answers](#)

**Question - 229:**

A dishonest dealer professes to sell his goods at cost price. But he uses a false weight and thus gains 300/47% for a kg, he uses a weight of

a)940gms

b)947gms

c)953gms





d)960gms

**Ans:**

$$300/47\% = 3/47$$

so if i buy 47 gms of items costing 1 rs per gram i sell it at the cost of  $47 + 3/47(47) = \text{cost of } 50 \text{ gms}$

so ratios between cp and sp is 47:50

940:1000

[View All Answers](#)

**Question - 230:**

The temperature at Mumbai is given by the function:  $-t^2/6 + 4t + 12$  where t is the elapsed time since midnight. What is the percentage rise (or fall) in temperature between 5.00PM and 8.00PM?

**Ans:**

ans is 16 percent

let T equals  $= -t^2/6 + 4t + 12$  ( where t is elapsed time)

rate of change in temp. equals  $dT/dt$

dat is  $-4t^2 - 36t / (18 + 4T)^2$

here time elapsed is 3

putting the value t equal 3

we get 144/900

so percentade change

$(144/900) * 100$

ans 16 percent

[View All Answers](#)

**Question - 231:**

A number of cats got together and decided to kill between them 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?

**Ans:**

Assume ,

n=Number of cats and

m=Number of mice per cat

Given that,

$n * m = 999919$  and  $m > n$

Solution,

$$n * m = (1000000 - 81) = 1002 * 92 = (100 + 9) * (100 - 9) = 109 * 91 = 109 * 13 * 7$$

Finally ,  $n * m = 109 * 13 * 7$

The following possibilities are rules out because  $m > n$

Number of Mice per cat (m)

Number of cats(n)

91

109

7

$109 * 13$

13

$109 * 7$

1

$109 * 7 * 13$

$109 * 13 * 7$

1

So n and m can take the following values (possibly)

Number of Mice per cat (m)

Number of cats(n)

109

91

$109 * 13$

7

$109 * 7$

13

I think any of the above 3 could be the answer.

Let me know if you get to know any other solution!!!

[View All Answers](#)

**Question - 232:**

In 80 coins one coin is counterfeit what is minimum number of weighing to find out counterfeit coin?

**Ans:**

make group of 30 30 and 20 coins

in first weight 30 30

if they are same then coin is in group of 20 if not then it is in lighter one

after one weight u got 30 coins in which lighter is present

in second make three group of 10 10 10 and weight any two group

if both are same then coin is in third one else in a lighter one

after two weight u find 10 coins in which lighter is present

in third

make group of 3 3 4



and weight group of 3 3  
if they are differ then u get the three else u get the group of 4  
in fourth  
if u get three weight any two and find the lighter one  
but if u get four there is a need for fifth weight

[View All Answers](#)

**Question - 233:**

How many 9 digit no.s are divisible by 7

- a.1256
- b.1986
- c.1524
- d.1874

**Ans:**

Try this excel macro

Sub test()

k = 0

For i = 100000000 To 999999999

If (i Mod 7 = 0) Then

k = k + 1

End If

Next

Cells(1, 1) = k

End Sub

Ans:

128571428

[View All Answers](#)

**Question - 234:**

Ram is 27 year old then Mohan. After 7 years Rams age is thrice as Mohans age. Find Rams age?

**Ans:**

Ram = mohan + 27

ram + 7 = 3(mohan)

then solving for these equations we get that Ram is 44yrs and mohan is 17 yrs

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**Question - 235:**

A sporting goods store ordered an equal number of white and yellow balls.The tennis ball company delivered 45 extra white balls,making the ratio of white balls to yellow balls 1/5 : 1/6

how many white balls did the store originally order for?

- a)450
- b)270
- c)225
- d)none of these

**Ans:**

According to me the Answer is 270...

x-white balls y=-yellow balls

x=y

x+45/5 = y/6

solve above 2 eqs

x=-270 balls cannot be negative...

[View All Answers](#)

**Question - 236:**

What is the output of the following C program?

```
Main()
```

```
{
```

```
Printf("%c","abcdefgh"[4]);
```

```
}
```

**Ans:**

The answer is "e" because the value "abcdefgh" will get one index for each letter as:

a=0

b=1

c=2

d=3

e=4

f=5

g=6

h=7

And since %c is written in question der4 only one letter will be our answer... and is "e" coz its index is 4.

[View All Answers](#)



**Question - 237:**

A box of 150 packets consists of 1kg packets and 2kg packets. Total weight of box is 264kg. How many 2kg packets are there?

**Ans:**

answer is  
 $114 * 2 = 228$   
 $36 * 1 = 36$  ----- 150 264

[View All Answers](#)

**Question - 238:**

A file is transferred from one location to another in buckets. The size of the bucket is 10 kilobytes. The bucket gets filled at the rate of 0.0001 kilobytes per millisecond. The transmission time from sender to receiver is 10 milliseconds per bucket. After the receipt of the bucket the receiver sends an acknowledgement that reaches sender in 100 milliseconds. Assuming no error during transmission, write a formula to calculate the time taken in seconds to successfully complete the transfer of a file of size N kilobytes.

- (a) 10.11 N
- (b) 11.011 N
- (c) 11.01 N
- (d) 10.011 N
- (e) 10.101 N

**Ans:**

To fill the bucket 100 sec,  
To transfer 1 bucket, 100.110 sec,  
To transfer n bucket, 100.11n,  
To transfer n kb, 10.011n sec

[View All Answers](#)

**Question - 239:**

The temperature at Chennai is given by the function:  $-t^2/6 + 4t + 12$  where t is the elapsed time since midnight. What is the percentage rise (or fall) in temperature between 4.00 PM and 9.00 PM?

- (a) 23.5%
- (b) 33%
- (c) -32.5
- (d) 20%
- (e) 46%

**Ans:**

4pm is 16 hours from midnight. 9pm is 21 hours from midnight  
for 4pm...we get... $-16^2/6 + 4 * 16 + 12 = 89$   
for 9pm...we get... $-21^2/6 + 4 * 21 + 12 = 71$  (approx)  
% change =  $18/89 * 100 = 20\%$  (Approx)

[View All Answers](#)

**Question - 240:**

The average age of 10 members of a committee is the same as it was 4 years ago, because an old member has been replaced by a young member. Find how much younger is the new member?

**Ans:**

let the members be a1,b,c,d,e,f,g,h,i,j .Let a2 be the younger member who replaces a1.  
we have,  
 $a1 + b + c + \dots + j = a2 + b + c + d + 4 + \dots + j + 4$   
 $\Rightarrow a1 + b + c + \dots + j = a2 + b + c + \dots + j + 36$   
hence, the oldest member is 36 years older than the new member

[View All Answers](#)

**Question - 241:**

If a man reduces the selling price of a fan from 400 to 380 his loss increases by 20% .What is the cost price of fan?

**Ans:**

The question should be "the loss increases to 20%" and not "loss increases by 20%" as these two have two completely different meaning.  
the former has an answer of 500  
where as the latter is undeterminable as a 20 decrease to produce 20% loss, cost has to be 100.

[View All Answers](#)

**Question - 242:**

In a basket 3 mangoes, 4 apples, and 4 bananas are there. Find number of ways we select randomly 3 fruits from the basket?

**Ans:**

It is equal to the number of solutions to  $x + y + z = 3$   
for  $0 \leq x \leq 3$  and similarly y and z  
so answer is  $(3+3-1)C(3-1) = 10$  ways

[View All Answers](#)

**Question - 243:**



There are three different boxes A, B and C. Difference between weights of A and B is 3 kgs. And between B and C is 5 kgs. Then what is the maximum sum of the differences of all possible combinations when two boxes are taken each time?

**Ans:**

case i :  $A=x$  kgs  $B=(x+3)$  kgs  $C=(x+8)$ kgs then S.O.D = 16kgs

case ii :  $A=x+3$   $B=x$   $C=x+5$  , S.O.D=10kgs

case iii :  $A=x+8$   $B=x+5$   $C=x$  ,S.O.D=16kgs

altogether 42kgs

[View All Answers](#)

**Question - 244:**

```
Main()
{
File *fp;
fp=fopen("xyz","r");
}
What does fp point to?
```

**Ans:**

the fp contains a pointer to a FILE structure that holds the details of file xyz....

[View All Answers](#)

**Question - 245:**

If three tapes are filling a tank of capacity of 500lit with speed of 30lit/sec, 48lit/sec and 36lit/sec. Find after how long time tank will fill?

**Ans:**

In 1 sec =  $30\text{lit}+36+48=114$

so 500 lit ==  $500/114\text{sec}$ .

[View All Answers](#)

**Question - 246:**

A person had to multiply two numbers. Instead of multiplying by 35, he multiplied by 53 and the product went up by 540. What was the raised product?

- a) 780
- b) 1040
- c) 1590
- d) 1720

**Ans:**

$x*53-x*35=540 \Rightarrow x=30$  therefore,  $53*30=1590$  Ans

[View All Answers](#)

**Question - 247:**

A sum of money is divided among A, B and C such that for each rupee A gets, B gets 65paise and C gets 35paise. If C's share is Rs.560, the sum is?

**Ans:**

Let x = rupees divided among b and c

Given

$x * 35/100=560$

$x*65/100=560*65/35$

$\Rightarrow x = 1040$

$1040+ 560 = 1600$

and from the question we can say that a gets double of share which b and c together gets

$\Rightarrow$  a's share is 3200

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**Question - 248:**

1)A, B and C are 8 bit nos. They are as follows:

A -> 1 1 0 0 0 1 0 1

B -> 0 0 1 1 0 0 1 1

C -> 0 0 1 1 1 0 1 0 ( - =minus, u=union)

Find  $((A - C) \cup B) = ?$

2)My flight takes off at 2pm from a place at 18N 40E and landed 10 Hrs later at a place with coordinates 36N40W.

What is the local time when my plane landed?

**Ans:**

First of all 'u' indicates "OR" operation. and secondly "subtraction"  $\Rightarrow$  addition of two's complement.

taking into account these two steps.

C=00111010

1's complement=11000101

2's complement=1's complement+1

=11000110

thus A-C  $\Rightarrow$  A+(2's complement of C) i.e

$11000101+11000110$

= 10001011 (neglecting the carry)

now (a-c)u b  $\Rightarrow$  10001011 u 00110011

= 10111011



= 187 (ans)

2.) In these questions the north-south longitudes are of no value. What matters is only the east-west latitudes.

here the person goes from 40E to 40W, i.e. a total movement of 80 degrees.

so time shift =  $24 \times (80/360)$  (a total of 360 degrees).

= 5.33 hrs.

time when he started = 2pm

time taken = 10 hrs

so time of arrival = 12 am

However travelling from east to west  $\Rightarrow$  12-5.33

= 6.27 pm (ans)

[View All Answers](#)

### Question - 249:

Selling a car gains 25% on SP. What % gain on CP?

- a) 15
- b) 25
- c) 33.33
- d) 47.5

**Ans:**

For these problems use formula

profit on SP =  $x\%$  then profit on CP =  $x / (100 - x)$  :

profit on CP =  $x\%$  then profit on SP =  $x / (100 + x)$ ;

here profit on CP =  $25 / (100 - 25)$

=  $25 / 75$

= .3333

% gain on CP is 33.33%

[View All Answers](#)

### Question - 250:

In a 8\*8 chess board, what is the total number of squares refer model?

**Ans:**

its 204

1\*1=64

2\*2=49

3\*3=36

4\*4=25

5\*5=16

6\*6=9

7\*7=4

8\*8=1

[View All Answers](#)

### Question - 251:

100 glasses are there. A servant has to supply glasses to a person. If he supplies the glasses without any damage he will get 3 paise. Otherwise he will lose 3 paise. At the end of supplying 100 glasses if he gets 270 paise. How many glasses were supplied safely?

**Ans:**

Let the number of glasses that are supplied without any damage be 'x' and the number of glasses supplied with damage be 'y'... He gets 3ps for every glass that he supplies without any damage, therefore the amount he gets by supplying x glasses is 3x... He loses 3ps for every glass he supplies with damage, therefore the amount he loses is 3y.. Total amount he received by supplying 100 glasses is 270ps and the number of glasses he supplied is 100  
 $\Rightarrow 3x - 3y = 270$  and  $x + y = 100$ ... solving these 2 equations, we get  $x = 95$  glasses

[View All Answers](#)

### Question - 252:

A face of the clock is divided into three parts. First part hours total is equal to the sum of the second and third part. What is the total of hours in the bigger part?

**Ans:**

39 explain :: the digits shown in the clock are 1, 2, 3, ..., 12. their total sum is  $1 + 2 + 3 + \dots + 12 = 78$ . since it is given that sum of one bigger part is equal to total sum of another 2 smaller parts.  $\Rightarrow$  bigger part =  $78 / 2 = 39$ .

[View All Answers](#)

### Question - 253:

A shopkeeper allows discount of 10% on the marked price of an item but charges a sales tax of 8% on the discounted price. If the customer pays Rs. 680.40 as the price including the sales tax, what is the marked price?

- (a) Rs. 630
- (b) Rs. 700
- (c) 780
- (d) none

**Ans:**

Ans: 700

let the market price be M.

10% discount of  $M = M / 10$

selling price excluding tax =  $M - \text{discount} \Rightarrow M - M / 10 = 9M / 10$



8% tax on discounted price =  $9M/10 * 8/100$   
=> actual selling price including tax =  $9M/10 + 72M/1000$   
which is equal to Rs.680.40  
=>  $9M/10 + 72M/1000 = 680.40$   
=>  $M = 700$

[View All Answers](#)

**Question - 254:**

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)?

**Ans:**

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).

Ans:  $3000 + 4(8 * 7) + 4 * 5$   
 $= 3000 + 224 + 20$   
 $= 3244$

[View All Answers](#)

**Question - 255:**

In which of the system decimal number 184 is = to 1234?

**Ans:**

Base = 5  
 $4 + 3a + 2a^2 + a^3 = 180$   
ie  $(a+1)^3 - a^2 = 181$   
By virtue we can see  $216 - 25 = 181$   
Thus  $x = 5$

[View All Answers](#)

**Question - 256:**

A ship leaves on a long voyage. When it is 18 miles from the shore, a seaplane, whose speed is 10 times that of the ship is sent to deliver mail. How far from the shore does the seaplane catch up with the ship?

**Ans:**

Consider the speed of ship be  $a$  then the speed of plane is  $10a$ ;  
Let  $t$  be the time taken by the ship to travel 18 miles then  $a = 18/t$ ;  
Speed of plane =  $180/t$ ;  
Distance covered by the ship during next  $t'$  time =  $18 + 18*t'/t$ ;  
Distance covered by sea plane =  $180*t'/t$ ;  
Equating both  $162*t'/t = 18$  ;  
 $t'/t = 18/162$ ;  
Distance to be covered =  $180 * 18/162 = 20$  miles ;

[View All Answers](#)

**Question - 257:**

The total expense of a boarding house are partly fixed and partly variable with the number of boarders. The charge is Rs.70 per head when there are 25 boarders and Rs.60 when there are 50 boarders. Find the charge per head when there are 100 boarders.

- a) 65
- b) 55
- c) 50
- d) 45

**Ans:**

let total cost be  $c = a + nk$   
where  $a$  = fixed cost and  
 $k$  = variable cost and  $n$  = number of boarders  
total cost when 25 boarders  $c = 25*70 = 1750$  i.e.  $1750 = a + 25k$   
total cost when 50 boarders  $c = 50*60 = 3000$  i.e.  $3000 = a + 50k$   
solving above 2 eqns,  $3000 - 1750 = 25k$  i.e.  $1250 = 25k$  i.e.  $k = 50$   
therefore, substituting this value of  $k$  in either of above 2 eqns we get  
 $a = 500$  ( $a = 3000 - 50*50 = 500$  or  $a = 1750 - 25*50 = 500$ )  
so total cost when 100 boarders =  $c = a + 100k = 500 + 100*50 = 5500$   
so cost per head =  $5500/100 = 55$

[View All Answers](#)

**Question - 258:**

A ship started from a port and moving I miles per hour. And other ships started from L and moving with H miles per hour. At the place where these two ships will meet

|---|---|---|---|---|---|  
port G H I J K L

**Ans:**

Let us consider that the distance between each port is 1 mile because all of them are same ..  
By the question we find that the speed of the ship from the port is equal to 2 distance from the port 2 the port I, so he will arrive at I in 1 hr, similarly the other ship will reach J in 1 hr as port H is 2 mile away from port



Therefore the meeting point must be between the port I and J, (ANS),  
By calculation I'm getting the meeting point as 0.6 miles from the port I and 0.4 miles from the port J.  
Formula is ::  
Distance covered =  $\frac{6H}{H+I}$  for the ship left from the port ..

[View All Answers](#)

**Question - 259:**

Some are 1 kg weights and some are 2 kg weights. The sum of the weights is 260. What is the number of 1kg weights?

**Ans:**

There are a total of 150 weights. Let the number of 1 Kg weights be 'x'. Then the number of 2 Kg weights is '150 - x'. The sum of the weights is 260 Kg. ie  $[x * 1 + (150 - x) * 2] = 260$ . By solving this you will get 'x' as 40.

[View All Answers](#)

**Question - 260:**

$(998-1)(998-2)(998-3)\dots(998-n)$  ----- when  $n > 1000$ ?

**Ans:**

if u take 998 common then eq. will be  
 $(998)^n(1-1)(1-2)\dots(1-n) = (998)^n(0)(-1)\dots$   
= 0

[View All Answers](#)

**Question - 261:**

A Car has run 10000 miles using 5 tyres interchangeably have an equal worn out by all tyres How many miles each Tyre should have run?

**Ans:**

I think the answer should be 8000 miles per tyre... because the remaining 2000 miles you use the other tyre... and for 4 wheels the fifth tyre would have run  $4 * 2000 = 8000$  miles... thus the answer should be 8000 miles per tyre...

[View All Answers](#)

**Question - 262:**

A power cable is to be run from a power plant on the bank of a river 900 meters wide to a factory that is located 3000 meters downstream on the opposite bank. If the cost of laying cable under water is Rs. 5 per meter and that of laying overhead on land is Rs. 4 per meter, find the point downstream where the cable is to cut across the river.

- (a) 450
- (b) 3900
- (c) 1800
- (d) 2100
- (e) 2700

**Ans:**

the point downstream where the cable is to cut across the river =  $3000 - 900 = 2100$   
so the answer is 2100.  
if cost is to be calculated then  $(2100 * 4) + (2100 * 5) = 18900$

[View All Answers](#)

**Question - 263:**

A traveler walks a certain distance. Had he gone half a kilometer an hour faster, he would have walked it in  $\frac{4}{5}$  of the time, and had he gone half a Kilometer an hour slower, he would have walked  $2\frac{1}{2}$  hr longer. What is the distance?

**Ans:**

there'll be 3 eq...  
t - time  
d - distance  
s - speed  
 $d/t = s$   
 $d/(4/5)t = s + 1/2$   
 $d/(t + (5/2)) = s - (1/2)$   
solve it....  
u'll get  
 $d = 15$ ...

[View All Answers](#)

**Question - 264:**

The value of  $\frac{1}{3} + \frac{5}{36} + \frac{7}{144} + \dots + \frac{17}{5184} + \frac{19}{8100}$ ?

**Ans:**

u can write the statement as  
 $1 - (1/4) = 3/4$   
 $1/4 - (1/9) = 5/36$   
 $1/9 - (1/16) = 7/144$   
so continuing like that we get  
 $1 - (1/100) = .99$



[View All Answers](#)

**Question - 265:**

$\frac{3}{4} + \frac{5}{36} + \frac{7}{144} + \dots + \frac{17}{5184} + \frac{19}{8100}$  is?

**Ans:**

Ans:0.99  
 $\Rightarrow [1 - \frac{1}{4}] + [1/4 - 1/9] + [1/9 - 1/16] + \dots$   
 $\Rightarrow 1 - 1/100$   
 $\Rightarrow 0.99$

[View All Answers](#)

**Question - 266:**

A bus started from bus stand at 8.00 a.m. and after 30 min staying at destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus 50 percent faster speed. At what time it returns to the bus stand?

**Ans:**

A bus covers 27 miles with 18 mph in  $\frac{27}{18} = 1.5$  hours and it waits at stand for 30 min.  
After this, the speed of return increases by 50%. So 50% of 18 mph = 9 mph  
Total speed of returning = 18 + 9 = 27  
Then in return it takes  $\frac{27}{27} = 1$  hour.  
Then total time in journey = 1.5 + 0.5 = 3 hours  
So it will come at 8 + 3 hours = 11 a.m.  
So ans = 11 a.m.

[View All Answers](#)

**Question - 267:**

The value of  $\frac{3}{4} + \frac{5}{36} + \frac{7}{144} + \dots + \frac{17}{5184} + \frac{19}{8100}$  is?

**Ans:**

convert it into...  
 $[1 - \frac{1}{4}] + [1/4 - 1/9] + [1/9 - 1/16] + \dots$   
 $= 1 - 1/100$   
 $= 0.99$

[View All Answers](#)

**Question - 268:**

In a company 30% are supervisors and 40% employees are male if 60% of supervisors are male. What is the probability that a randomly chosen employee is a male or female?

**Ans:**

Ans:0.3  
Let E be the event that the employee may be female or male supervisors...  
30% are supervisors.  
60% of 30% supervisors = 18% male supervisors.  
Therefore, 12% are female supervisors.  
The prob(E) = no. of favorable chances / no. of total chances.  
 $\Rightarrow \text{prob}(\text{male}) + \text{prob}(\text{female})$   
 $\Rightarrow \frac{18}{100} + \frac{12}{100}$  since, total employees in the company are 100.  
 $\Rightarrow 0.3$  (probability lies between 0 and 1).

[View All Answers](#)

**Question - 269:**

In a circular race track of length 100 m, three persons A, B and C start together. A and B start in the same direction at speeds of 10 m/s and 8 m/s respectively. While C runs in the opposite direction at 15 m/s. When will all the three meet for the first time after the start?

- a) After 4 s
- b) After 50 s
- c) After 100 s
- d) After 200 s

**Ans:**

In such type of questions get your answers from options itself.  
Take 1st option and calculate distance travelled by each person so it will be  $(4 \times 10) = 40$  m for A,  $(4 \times 8) = 32$ ,  $(4 \times 15) = 60$ .....so here distance travelled by each person is not a multiple of 100.....  
likewise try for other options.....  
The correct answer is 100s

[View All Answers](#)

**Question - 270:**

If first term of AP is 5. 16th term is 45. Find the sum of first 16 terms?

**Ans:**

1st term = 5, 16th term = 45;  $5 + 15d = 45$  where d is common difference.  $d = 8/3$ .  
Therefore sum of first 16 terms =  $\frac{16}{2}(2 \times 5 + 15 \times 8/3) = 400$





[View All Answers](#)

### Question - 271:

There is a circular pizza with negligible thickness that is cut into  $x$  pieces by 4 straight line cuts. What is the maximum and minimum value of  $x$  respectively?

- a) 12,6
- b) 11,6
- c) 12,5
- d) 11,5

### Ans:

just draw a circle in paint try cutting it.....you wont get more than 11.

[View All Answers](#)

### Question - 272:

Find the root of given equation  $x-2/(x-1)=1-2/(x-2)$  if possible?

### Ans:

Its,easy as we:

are wid:  $x-1=2/(x-1)-2/(x-2)$

$x-1=2(x-2)-2(x-1)/(x-1) * (x-2)$

$x-1=-2/(x-1)(x-2)^3$

so,  $(x^2-2x-1)(x-2)=-2$

$(x^3-2x^2-x)-(2x^2-4x+2)=-2$

$(x^3-4x^2+3x-2)=-2$

$\Rightarrow x=0$  or,

$x^2-4x+3=0$

$\Rightarrow x=1, x=3$

[View All Answers](#)

### Question - 273:

If the product of the 3 consecutive integers is 210, then the sum of the two smaller integers?

### Ans:

the three consecutive integers be  $x, y$  and  $z$ .

given:  $xyz=210$ . the unit place ends with 0. so it must be a multiple of 5,10,...

if it is a multiple of 10 means it must lead to a large number because  $10*9*8=720$  or  $10*11*12=1320$ . so it must be a multiple of 5.

so now  $5*6*7=210$  or  $5*4*3=60$ .

according to the given question 5,6,7 only satisfies. so the numbers must be 5,6 and 7.

the sum of smallest integers is  $5+6=11$ .

answer is 11.

[View All Answers](#)

### Question - 274:

How to do the preparation for an aptitude?

### Ans:

Quantitative, Aptitude and Verbal & Non-Verbal Reasoning are best books always!

[View All Answers](#)

### Question - 275:

one angle of the triangle is 3 times a second angle and third angle is 20degrees more than the second angle. Then the second angle is?

### Ans:

let  $x, y$  and  $z$  be the angles of 3 sides.

given:  $x=3y; z=y+20$ .  $y=?$

we know the total angle of the triangle is 180 deg. therefore  $x+y+z=180$ .

on substituting the given conditions we get

$3y+y+y+20=180$

$5y=160$

$y=32$ .

therefore the second angle is  $y=32$  deg.

[View All Answers](#)

### Question - 276:

One of Mr. Horton, his wife, their son, and Mr. Horton's mother is a doctor and another is a lawyer.

a) If the doctor is younger than the lawyer, then the doctor and the lawyer are not blood relatives.

b) If the doctor is a woman, then the doctor and the lawyer are blood relatives.

c) If the lawyer is a man, then the doctor is a man.

Whose occupation you know?

### Ans:

At least one of them is doctor.

Statement a rules out son as he is a blood relative to all of them.

Statement b and c together rule out the possibility of the doctor being a woman

The only person whose occupation can be doctor, is Mr. Horton (which is not ruled out by any of the statements).



[View All Answers](#)

**Question - 277:**

A pole seen from a certain distance at an angle of 15deg and 100m ahead by 30deg.what is the height of pole?

**Ans:**

The height of the pole is 50 m  
applying trigo, we get,  
 $\tan 15 = h/(100+y)$  ;  
 $\tan 30 = h/y$ ;  
solving above, we get  
 $h=50m$

[View All Answers](#)

**Question - 278:**

A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable below water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. Find the total of laying the cab?

**Ans:**

width of river = 750 meters  
plant from the power unit = 1500 meters  
hence, the cable on the bank is  $1500 - 750 = 750$  meters.  
so, total cost =  $(750*15) + (750*12) = Rs. 20250/-$

[View All Answers](#)

**Question - 279:**

A plane starts from degrees minutes and radians are given and reaches at degrees minutes and radians are given...if travel is twelve hours when will it reach?

**Ans:**

ofr correct values in question refer greekpaper

[View All Answers](#)

**Question - 280:**

Which set of data exhibits a highest standard deviation?

- a) 7,0,-7,7,0,-7
- b) 7,-7,7,-7,7,-7

**Ans:**

Ans:b 7,-7,7,-7,7,-7 its SD is 7  
Here i can t give u formulae:  
Bcoz of special characters like SQRT etc.  
please have below URL :[http://en.wikipedia.org/wiki/Standard\\_deviation](http://en.wikipedia.org/wiki/Standard_deviation)  
where u can find the procedure to find SD.

[View All Answers](#)

**Question - 281:**

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?

**Ans:**

It should be 11 kms..  
i.e.  $8+3=11$   
because 5 kms is the vertical distance he covered...so it wont be considered...

[View All Answers](#)

**Question - 282:**

A car has run 10000 miles using 5 treys interchangeably, To have a equal worn out by all treys how many miles each Tyre should have run?

**Ans:**

each tire with 8000 miles  
2 2 reserve tire=0miles now change the tire,  
after 2000miles  
  
2 4 reserve tire=2000miles  
after 2000miles  
4 4 reserve tire=4000miles now change the tire,  
after 2000miles  
6 6 reserve tire=6000  
after 2000miles  
8 6 reserve tire=8000  
so ans is 8000.



[View All Answers](#)

### Question - 283:

- 1)SCOOTER ----- AUTOMOBILE A. A PART OF
- 2.OXYGEN----- WATER B. A Type of
- 3.SHOP STAFF----- FITTERS C. NOT A TYPE OF
4. BUG -----REPTILE D. A SUPERSET OF

#### Ans:

ans would be:bug.....reptile

Reason:rest all three are either way connected by each other as a subset and superset / intersection whereas bug and reptile are exclusive sets

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### Question - 284:

ABCE is an isosceles trapezoid and ACDE is a rectangle. AB = 10 and EC = 20. What is the length of AE?

#### Ans:

ae=10

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### Question - 285:

Ram singh goes to his office in the city every day from his suburban house. His driver Mangaram drops him at the railway station in the morning and picks him up in the evening.

Every evening Ram singh reaches the station at 5 o'clock. Mangaram also reaches at the same time. One day Ram singh started early from his office and came to the station at 4 o'clock. Not wanting to wait for the car he starts walking home. Mangaram starts at normal time, picks him up on the way and takes him back home, half an hour early. How much time did Ram singh walked?

#### Ans:

for 20 min he has to walk

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### Question - 286:

In a certain code, the symbol for 0 (zero) is. \* and that for 1 is \$. The numbers greater than 1 are to be written only by using the two symbols given above.

The value of the symbol for 1 doubles itself every time it shifts one place to the left. (For example, 4 is written as \$\*\*; and; 3 is written as \$\$)

#### Ans:

First you have to find the binary value for that no. Then you can replace 1 by \$ and 0 by \*

[View All Answers](#)

### Question - 287:

In which of the system, decimal number 384 is equal to 1234?

#### Ans:

Base 6

Keep take out factors of 384 by dividing it by 6, till remainder remains 1, go reverse and form the number it should be 1234

[View All Answers](#)

### Question - 288:

In the following figure:A B C

D

E F G

H

I

Each of the digits 1, 2, 3, 4, 5, 6, 7, 8, and 9 is:

a)Represented by a different letter in the figure above.

b)Positioned in the figure above so that each of  $A + B + C$ ,  $C + D + E$ ,  $E + F + G$ , and  $G + H + I$  is equal to 13.

Which digit does E represent?

#### Ans:

By given condition, we have

$$A+B+C = 13 \dots(1)$$

$$C+D+E = 13 \dots(2)$$

$$E+F+G = 13 \dots(3)$$

$$G+H+I = 13 \dots(4)$$

Add up (1)+(2)+(3)+(4), we get

$$52=13*4 = A + B + C + C + D + E + E + F + G + G + H + I = C+E+G+(A + B + C + D + E + F + G + H + I)$$

$$= C+E+G+(1+2+ 3+ 4+ 5+ 6+ 7+ 8+ 9) = C+E+G+(1+9)*9/2 = C+E+G + 45$$

$$\text{Hence, } C+E+G = 52 - 45 = 7 \dots(5)$$

By (5), we have  $E = 7 - C - G \leq 7 - 3 = 4$  (since, the smallest C,G are 1 or 2)

By (2)-(5), we get  $D - G = 6$ , or  $D = G + 6 \dots(6)$

Since D,G are between 1 and 9,



so  $D = 7, 8, \text{ or } 9$ , and we have  $G = 1, 2 \text{ or } 3$

By (3)-(5), we get  $F - C = 6$ , or  $F = C + 6 \dots (7)$

Since  $F, C$  are between 1 and 9,

so  $F = 7, 8, \text{ or } 9$ , and we have  $C = 1, 2 \text{ or } 3$

By (6), (7) & (5):

Case(i) When  $G = 1$ ,  $D = G + 6 = 7$ ,

and then  $C = 2$ ,  $F = C + 6 = 8$ ,  $E = 7 - C - G = 4$

Or  $C = 3$ ,  $F = 9$ ,  $E = 3$  (invalid, since the same  $C, E$  value)

Case(ii) When  $G = 2$ ,  $D = G + 6 = 8$ ,

and then  $C = 1$ ,  $F = C + 6 = 7$ ,  $E = 7 - C - G = 4$

Or  $C = 3$ ,  $F = 9$ ,  $E = 2$  (invalid, since the same  $C, G$  value)

Case(iii) When  $G = 3$ ,  $D = G + 6 = 9$ ,

and then  $C = 1$ ,  $F = C + 6 = 7$ ,  $E = 7 - C - G = 3$  (invalid, since the same  $E, G$  value)

Or  $C = 2$ ,  $F = C + 6 = 8$ ,  $E = 7 - C - G = 2$  (invalid, since the same  $C, E$  value)

In these three possible cases of the values of  $G$ , we obtain that the only valid value of  $E$  is 4

[View All Answers](#)

### Question - 289:

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 meters per second?

**Ans:**

5 m/sec

[View All Answers](#)

### Question - 290:

A sales person multiplied a number and get the answer is 3 instead of that number divided by 3. what is the answer he actually has to get?

**Ans:**

Assume 1

$1 * 3 = 3$

$1 * 1/3 = 1/3$

so he has to got  $1/3$

this is the exact answer

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### Question - 291:

The length of a rectangle is increased by 60%. By what % would the width have to be decreased to maintain the same area?

**Ans:**

Let the length be  $L$  and breadth be  $B$ ...therefore initial area is  $A = L * B$

Now if we increase length by 60%, the new length will be  $L + 3L/5$ ...

Let the decreased amount of breadth be  $x$ ...

since the area is same in both the cases, we can equate the area as

$L * B = 8L/5(B - x)$ ...Solving this we get  $x$  as  $3/8$ ...which is nothing but 37.5%

Therefore the breadth should be decreased by 37.5%

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### Question - 292:

An aircraft takes off from A ( $72^\circ \text{ N Lat}$ ,  $40^\circ \text{ E Long}$ ) at 2.00 Am local time to B ( $32^\circ \text{ N Lat}$ ,  $50^\circ \text{ W Long}$ ). If the flying time is 10 hours what is the local time of landing at B?

**Ans:**

$40 + 50 = 90$ .

for 1 deg 4 minutes, so for 90 ( $90 * 4$ ) = 360 minutes = 6 hours

2am + 10 hours journey - 6 hours = 6 hours.

so the answer is 6am.

[View All Answers](#)

### Question - 293:

The size of a program is  $N$ . And the memory occupied by the program is given by  $M = \text{square root of } 100N$ . If the size of the program is increased by 1% then how much memory now occupied?

**Ans:**

$M = \sqrt{100N}$

$N$  is increased by 1%

therefore new value of  $N = N + (N/100)$

$= 101N/100$

$M = \sqrt{100 * (101N/100)}$

Hence, we get

$M = \sqrt{101 * N}$



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**Question - 294:**

What is the highest prime number that can be stored in a 8-bit microprocessor?

**Ans:**

for an 8-bit memory address memory address : 128 64 32 16 8 4 2 1 1 1 1 1 1 1 1 = 253 but this can be divided by 11, the next greatest prime number is 1 1 1 1 1 0 1 = 251:

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**Question - 295:**

x, y, and z are odd numbers not necessarily in sequence then y=?  
Mean of x and z is 114 and mean of y and z is 113?

**Ans:**

here;  $(X+Z)/2=114$ ;  
 $(Y+Z)/2=113$ ; from these 2 eq. we have  $X-Y=2$ ;  
therefore suppose that  $X=2n-1$  any odd no. where  $n=1,2,3,\dots$   
 $y=2n-3$  we have to choose Z such that n should be real no.  
suppose  $z=2n-7$ ; therefore  $(X+Z)/2=114$ ;  $(2n-1 + 2n-7)/2=114$ ; solving this we get  $n=59$ ;  $Y=115$

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**Question - 296:**

Given \$ means Tripling and % means change of sign then find the value of  $\$ \$ 6 - \% \$ 6$ ?

**Ans:**

The answer is  $-9*6 - 4*6 = -78$   
 $\$ \$ 6 = (3)(-1)(3)*6 = -9*6$   
 $\% \$ 6 = (-1)(3)(-1)*6 = 3*6$

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**Question - 297:**

Find the value of 678 to base 7...if possible give me steps and how to solve?

**Ans:**

divide 678 by 7 we'll get 6 as remainder... again divide the quotient by 7 we get 5 as remainder... again divide quotient getting 6 as remainder... again doing 1 as remainder... just reverse the order of remainders we got..... we'll get 1656..

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**Question - 298:**

Bhanu spends 30% of his income on petrol on scooter.  $\frac{1}{4}$  of the remaining on house rent and the balance on food. If he spends Rs.300 on petrol then what is the expenditure on house rent?

Choices :

- a) Rs.525
- b) Rs.1000
- c) Rs.675
- d) Rs.175

**Ans:**

Let the salary be x  
then  $30*x/100 = 300$   
hence  $x = 1000$   
remaining sal  $1000-300 = 700$   
&  $1/4$  of  $700 = 175$   
so ans = 175

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**Question - 299:**

A report consists of 20 sheets each of 55 lines and each such line consists of 65 characters. This report is retyped into sheets each of 65 lines such that each line consists of 70 characters. The % reduction in the number of sheets is closest to

- a) 20
- b) 5
- c) 30
- d) 35

**Ans:**

20% is d ans  
 $20*55*65 = 71500$  chars  
Let the number of sheets required be x here.  
Hence,  $x*65*70 = 71500$  chars  
or  $x = 71500/65*70 = 15.71 = 16$  sheets(approx)  
hence % reduction in sheets = 20%

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**Question - 300:**

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

**Ans:**

let x mile be the distance of picnic spot. onward jrnj =  $x/40$  hr return jrnj =  $x/30$  hr total  $x(1/40+1/30)=8$  hr so  $x=137.14$  mile

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**Question - 301:**

A ship started from a 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:**

if they meet at t time. dist. travelled by first one  $I*t$  dist. travelled by second one  $H*t$  total distance is  $t*(I+H)=L$  so  $t=L/(I+H)$  meeting point is  $I*t = I*L/(I+H)$  dist. from port

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**Question - 302:**

A car is filled with four and half gallons of oil for full round trip. Fuel is taken 1/4 gallons more in going than coming. What is the fuel consumed in coming up?

**Ans:**

coming up takes  $2\frac{3}{8}$  going down  $2\frac{1}{8}$

[View All Answers](#)

**Question - 303:**

In a mixture R is 2 parts, S is 1 part in order to make S to 25% of the mixture, how much R is to be added?

**Ans:**

R shall be 50% of volume assumed for which S is taken 25% of that same volume

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**Question - 304:**

A bus started from bus stand 8.00am and after 30min staying at destination it returned back to the bus stand. The destination is 27 miles from the bus stand the speed of the bus 50percent fast speed at what time it returns to the bus stand?

**Ans:**

assuming bus speed at 27miles / hr  
Bus will reach destination at 9.00 am  
and will start return journey at 9.30 am  
To cover other 27miles at 50% slower speed i.e at 18miles /hr it will take 1hr 30 minutes and will reach at start point at 11 am.

[View All Answers](#)

**Question - 305:**

In madras, temperature at noon varies according to  $-t^2/2 + 8t+3$ , where t is elapsed time. Find how much temperature more or less in 4pm to 9pm?

**Ans:**

here temp is directly proportional to  $-t^2/2+8t+3$   
so at 4pm  $-4^2/2+4*8+3$  is 27  
at 9 pm  $-9^2/2+9*8+3$  is 70.5  
so diff is 34.5

[View All Answers](#)

**Question - 306:**

A traveler walks a certain distance. Had he gone half a kilometer an hour faster, he would have walked it in 4/5 of the time, and had he gone half a Kilometer an hour slower, he would have walked 2 1/2 hr longer. What is the distance?

- a) 10 Km
- b) 15 Km
- c) 20 Km
- d) Data Insufficient

**Ans:**

since the distance travelled is same  
 $st=(s+0.5)(4/5)t$   
on solvin u will get  $s=2$   
there is one more equation  
 $st=(s-0.5)(t+5/2)$   
substitute  $s=2$  in the above eq and find 't' u will get  $s=2, t=7.5$  therefore  $d=st=15$ km  
ans: 15km

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**Question - 307:**

Find the range of  $x^2x - 5x + 6 > 0$  if  $X <= 2$ ;  $X >= 3$ ?



**Ans:**

The range of  $x$  lies between  $x > 3$  as well as  $x > 2$  w.r to ques. its in existing range

[View All Answers](#)

**Question - 308:**

Tell me how do you think you are confident?

**Ans:**

i think i am confident in any of my works as they are right bcoz i do any work with full of concentration, interest, and i will put all my frantic efforts to complete that work effectively to make that work "the best" among all among others.

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**Question - 309:**

If  $\log 0.317 = 0.3332$  and  $\log 0.318 = 0.3364$  then find  $\log 0.319$ ?

**Ans:**

$\log 0.317 = 0.3332$  and  $\log 0.318 = 0.3364$   
then  
 $\log 0.319 = \log 0.318 + (\log 0.318 - \log 0.317)$   
0.3396

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**Question - 310:**

In the word ORGANISATION if we exchange first with the second, second with the third, third with fourth and so on. Till last then what will be the 10 letter from right?

**Ans:**

RGANISATIONO  
So 10th letter is 'A'

[View All Answers](#)

**Question - 311:**

A cryptanalyst must translate into letters of all digits included in the following two lines of nine symbols each

9 3 3 4 5 6 6 6 7  
2 2 3 3 4 4 5 7 8

The cryptanalyst has already determined some of rules governing the decoding

Rule 1-Each of the digits from 2 to 9 represents exactly one of the eight letters A, E, I, O, U, R, S, T.

Rule 2-Each letter is represented by exactly one of the digits. If a digit occurs more than once it represents the same letter on each occasion.

Rule 3-The letter T and the letter O are each represented exactly 3 times.

Rule 4-The letter I and the letter A are each represented exactly 2 times.

Rule 5-The letter E is represented exactly 4 times.

Based on above solve following Questions

Q1. If 9 represents vowel, it must represent which of following

- Option 1- A
- Option 2- E
- Option 3- I
- Option 4- O
- Option 5- U

Q2. If 8 represents vowel which of the following must represent a consonant

- Option 1- 2
- Option 2- 4
- Option 3- 5
- Option 4- 7
- Option 5- 9

Q3. If 2 represents R and 7 represents A, then 5 must represent

- Option 1- I
- Option 2- O
- Option 3- S
- Option 4- T
- Option 5- U

Q4. Which of the following is a possible decoding of the five digit message 46536 ?

- Option 1. O-T-A-E-T
- Option 2. O-T-E-U-T
- Option 3. O-O-S-E-O
- Option 4. T-O-I-E-T
- Option 5. T-O-R-E-T

**Ans:**

5-u  
5-9  
1-I  
1-oteat

[View All Answers](#)



### Question - 312:

A has some no. of sons & daughters.  
each son has sisters as twice as brother(s).  
each daughter has sisters as brothers.how many children A has?

#### Ans:

There are seven children ( 3 girls and 4 boys )  
The other condition 1,2 or 2,3 is not possible

[View All Answers](#)

### Question - 313:

Find the minimum value of  $3x+4y$  if  $x^2y^3=12$ ?

#### Ans:

by substitution , consider  $x=2/3$  &  $y=3$   
satisfying  $x^2y^3=12$ ;  $(2/3)^2 \cdot 3^3=12$   
so  $3x+4y=14$

[View All Answers](#)

### Question - 314:

In class of 10 students, the teacher writes a number on the board. The first student tells that the number is divisible by 1, the second student tells that the number is divisible by 2, the third by 3, the fourth by 4 and so on till 10. If the statement of one of the students is wrong then what is the least number possible?

#### Ans:

First we are taking the l.c.m of 1-10. the result is 2520.  
then being the highest prime number 7.  
we will divide 2520 by 7. the result will be 360.  
which is the least number divisible by all numbers 1-10 other than 7

[View All Answers](#)

### Question - 315:

These ques were asked in the Intuit paper. There were 11 ques:

1. Write a C function(statement given) for definition of strlen(used to return the length of a null character terminated ASCII string):  
unsigned int strlen(char \*str)
2. U have a rectangular board with a rectangular hole in it(could be anywr at any inclination). Draw a single straight line to cut the solid are into 2 equal halves.
- 3.what is the output of the following prog?

```
#include  
void main()  
{  
int i=10;  
int j=i%2;  
if (j==0)  
cout<<"Got it:"< else  
cout<<"out it:"< }
```

#### Ans:

in c++ programming language `#include<iostream.h>` is must so it give error

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### Question - 316:

Mr. and Mrs. Aye and Mr. and Mrs. Bee competed in a chess tournament.Of the three games played:

- a)In only the first game werethe two players married to each other.
  - b)The men won two games and the women won one game.
  - c)The Ayes won more games than the Bees.
  - d)Anyone who lost game did not play the subsequent game.
- Who did not lose a game?

#### Ans:

AM=Mr. Aye  
AF= Mrs. Aye  
BM=Mr. Bee  
BF=Mrs. Bee  
The possible sequence of matches can be :  
AM(Win) Vs.AF  
AM(win) Vs. BM  
AM Vs. BF(win) Hence Mrs. Bee never lose.

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### Question - 317:

The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent? Please tell me the answer with explanation?

#### Ans:

see it doesn't matter that wat the time is being taken to fill the bucket.after reaching program it waits there for 10ms and back to the programmer in 20 ms.then total time to get the response is 20ms +10 ms=30ms...it's so simple....





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### Question - 318:

A fisherman's day is rated as good if he catches 9 fishes, fair if 7 fishes and bad if 5 fishes. He catches 53 fishes in a week and had all good, fair and bad days in the week. So how many good, fair and bad days did the fisherman have in the week?

**Ans:**

Simple Silly question  
Go to river catch fish  
 $4 \times 9 = 36$   
 $7 \times 1 = 7$   
 $2 \times 5 = 10$   
 $36 + 7 + 10 = 53$ ...

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### Question - 319:

If  $G(0) = -1$ ,  $G(1) = 1$  and  $G(N) = G(N-1) - G(N-2)$  then what is the value of  $G(6)$ ?

**Ans:**

ans: -1  
because  $g(2) = g(1) - g(0) = 1 + 1 = 2$   
 $g(3) = 1$   
 $g(4) = -1$   
 $g(5) = -2$   
 $g(6) = -1$

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### Question - 320:

There are 5 distinct pairs of white socks and 5 pairs of black socks in a cupboard. In the dark, how many socks do I have to pull out to ensure that I have at least 1 correct pair of white socks?

- a) 3
- b) 11
- c) 12
- d) 16

**Ans:**

it need to be 11. because there are totally 20 such socks, 10 in each color so if we take 11 there should be at least 1 pair of same color

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### Question - 321:

What is the answer for that :

A, B and C are 8 bit nos. They are as follows:

A -> 1 1 0 0 0 1 0 1

B -> 0 0 1 1 0 0 1 1

C -> 0 0 1 1 1 0 1 0 (- = minus, u = union)

Find  $((A - C) \cup B) = ?$

**Ans:**

no shankar4u ur wrong in ur calculation..... its  $((A - C) \cup B)$

ie

$197 - 51 = 146$

$146 + 58 = 204$

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### Question - 322:

A bus started from bus stand at 8.00 a.m. and after 30 min staying at destination, it returned back to the bus stand. the destination is 27 miles from the bus stand. the speed of the bus 50 percent fast speed. at what time it returns to the bus stand?

**Ans:**

It returns at the 9:58 a.m.

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### Question - 323:

LCM of x and y is 36 and HCF of x and y is 4. If  $x = 4$  then which of the following is definitely not true?

- a) Y is divisible by 3
- b) Y is divisible by 6
- c) Y is divisible by 9
- d) X+Y is divisible by

**Ans:**

$X = 4$  Hence  $Y = 36$

so option 1, 2 & 3 are correct



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**Question - 324:**

How many positive integer solutions does the equation  $2x+3y = 100$  have?

- a) 50
- b) 33
- c) 16
- d) 35

**Ans:**

Its very simple... See by observing that in  $2x+3y=100$   $2x$  is always even and 100 is also even so u need to have  $3y$  also positive. so within 100 3 can be multiplied by 100/33 times to get an even number. So (b) 33 is the answer.

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**Question - 325:**

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

**Ans:**

The Answer is 6:40 AM

The destination place is 80 degree west to the starting place. Hence the time difference between these two places is 5 hour 20 min. ( $=24hr*80/360$ ).

When the flight landed, the time at the starting place is 12 noon (2 AM + 10 hours).

Hence, the time at the destination place is 12 noon - 5:20 hours = 6: 40 AM

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**Question - 326:**

A program reads "The man and the boyrn" from a file using `fgets()` and stores it in `str[]`. Then the string stored in `str` is

- A. "The man and the boyrn"
- B. "The man and the boyr"
- C. "The man and the boyrn"
- D. "The man and the boy"

**Ans:**

Answer A

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**Question - 327:**

A building with height D ft shadow up to G. A neighbor building with what height shadow C ft is?

**Ans:**

G shadow for height D ftC shadow for height =  $D*C/G$

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**Question - 328:**

A, B and C are 8 bit nos. They are as follows:

A -> 1 1 0 0 0 1 0 1

B -> 0 0 1 1 0 0 1 1

C -> 0 0 1 1 1 0 1 0 ( - =minus, u=union)

Find  $((A - C) \cup B) = ?$

**Ans:**

A - C = 10001011

& (A - C) U B =

1 0 0 0 1 0 1 1

0 0 1 1 0 0 1 1

=====

1 0 1 1 1 0 1 1

HENCE,

ANS = 10111011

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**Question - 329:**

A non stop bus to Amritsar overtakes an auto also moving towards Amritsar at 10 am. The bus reaches Amritsar at 12.30 pm and starts on the return journey after 1 hr. On the way back it meets the auto at 2 pm. At what time the auto will reach Amritsar?

- a) 2.30pm
- b) 3.00pm
- c) 3.15pm
- d) 3.30pm

**Ans:**

Answer:b:3 P.M.



Assumptions:

Distance between two points where Bus meets auto= $x$

Distance between the point where bus meets auto for the second time and Amritsar= $y$

velocity of bus= $V_b$

velocity of auto= $v_a$

$v_b = x/2$

$v_a = x/4$

$y = 0.5 * v_b = 0.5 * x/2$

time taken by auto for covering the distance  $y = y/v_a = 1$  Hour

hence time at which auto reaches Amritsar = 2 P.M. + 1 hour = 3 P.M.

[View All Answers](#)

**Question - 330:**

A, B and C are 8 bit nos. They are as follows:

A -> 1 1 0 1 1 0 1 1

B -> 0 1 1 1 1 0 1 0

C -> 0 1 1 0 1 1 0 1 (n=intersection, u=union)

Find  $((A \cap B) \cup C) = ?$ . A-B is  $\{A\} - \{A \cap B\}$

**Ans:**

this is basically binary operation

n-intersection i.e. LOGICAL AND

U -union i.e. LOGICAL OR

$A \cap B = 01011010$

$((A \cap B) \cup C) = 01111111$

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**Question - 331:**

A and B are shooters and having their exam. A and B fall short of 10 and 2 shots respectively to the qualifying mark. If each of them fired atleast one shot and even by adding their total score together, they fall short of the qualifying mark, what is the qualifying mark?

**Ans:**

ANS-- 11

as A is short by 10- he has shot 1

as B is short by 2 - he has shot 9

$9+1=10$   $10 < 11$

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**Question - 332:**

A, B and C are 8 bit nos. they are as follows:

A=11000101

B=00110011

C=00111010

find  $((A-C) \cup B)$

**Ans:**

THE OPTIONS ARE

1)55 2)64 3)32 4)53

ANSWER=55

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