

INFOSYS PREVIOUS QUESTIONS V 2.1

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<http://www.cherian.itgo.com>

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How to apply?

You can directly send resumes to: freshers@infy.com or freshers@infosys.com
Don't stop if you have sent once. Even if you meet all these criteria, you may NOT get the call letter sometimes. Since they are randomly selected from thousands of similar applications, you need a fair amount of luck here too. Hence I recommend you to ask an infosyan to forward it for you. (That was how I was called).

plz note :

1. 10th , 12th , Engineering percentages should be more than 65 %.
2. Date of Birth must be after January 1 st, 1979 for B.Tech students.
3. You should not have taken the Infosys test or interview in the last 9 months.
4. Write Your Full Name, Date of Birth, 10th, 12th, Engineering percentages at the top of resume clearly. They are mandatory. If they are not present, your resume will be DELETED straightaway. It's advisable to include a cover letter that contains your college, university, and percentages of 10th, 12th and B.Tech courses.
5. Also NEVER write your percentages Semester wise or Year-wise. Just write the aggregate percentage. That's more than sufficient.

You cannot attend a test without a call letter. You will get an e-mail normally before 3 weeks and a hard copy by post later.

Preparation:

(Phase I)- Must books to study:

- (1) Puzzle to puzzle you by Shankunthala Devi.
- (2) More Puzzles by Shankunthala Devi.
- (3) Book by Ravi Narula
- (4) GRE – by Barrons (optional)

(Phase II) –Solve maximum previous questions.
Even solving this whole file is more than enough...

If you solve all the problems in the above books and this file I guarantee you will pass the infy test easily.... What else requires are confidence, perseverance and god's grace ...

Believe me, a lot of questions are getting repeated, either completely same or values changed or with similar pattern ...don't mug up the answers. You should know how to do it...

Internet websites:

<http://www.chetana-jobs.com>

<http://www.freshersworld.com>

<http://www.geocities.com/careeraid2003/company.html>

<http://www.cherian.itgo.com/careers/>

<http://www.vengy.com>

And lots more...

Must Subscribe Yahoogroups for any Indian IT aspirant ...

<http://groups.yahoo.com/chetana-jobs>

<http://groups.yahoo.com/freshers>

Aptitude Test (Selection, rather Elimination phase A):

Form Filling. (Time: 45 minutes).

You need to fill up a big form which asks u the following information :

Roll No, Name, address, phone and e-mail,

Total marks, percentage, board/university, college/school, branch/ Specialization of 10th, 12th, graduation and PG courses,

Extracurricular activities & Achievements, Hobbies and Interests,

Work experience-Company, designation, roles, duration, gross remuneration,

Hardwares worked with, Programming Languages, Databases and Tools known,

REFERENCES (MAX 4) OF EMPLOYEES (name, designation and your relationship) AT INFOSYS,

Professional references (2),

Previous tests, interviews, offer by Infosys,

And any other information you would like to give.

Reasoning Test –10 or 9 puzzles with total 50 marks (Time 60 minutes)

No OMR. You need to write down the final answers on the front page of the answer book. All the rough work **should** be done in the space provided. This probably means that they will look whether you have actually done them.

English Test. (45 questions, Time: 30 minutes.)

OMR marking.

A few questions (5 -6) based on a small comprehension passage (simple)

Fill in the blanks with suitable words: You need to know the correct word meanings to find the suitable answer.

One word substitution like: (4 choices for each question)

a). A man who excessively bothers about ones own health is called - hypochondriac

b). The scientific term used for genetically changes resulting from constant radiation is called -- mutation

Find the wrong one among a group of sentences.

Find the correct one between two sentences.

Fill in the blanks with suitable form of verbs, adverb, prepositions, correct tense, (of / by / to / in / on)

etc

Interview (Selection Phase B):

The short-listed candidates will be invited for a 10-15 minutes HR interview.

If selected, you will be intimated by e-mail in 2 weeks and the hardcopy will reach you later in a maximum of three months.

BEST OF LUCK

Previous Questions:

16th May 2004

1. A man sold two cows for Rs 210. If he made a 10% loss on one cow and 10% profit on the other cow, and overall made a profit of 5%, how much was each cow worth initially?

2. A box contains white socks and black socks. you have to pull them out blindfolded, and you know the number of socks you have to pull out to definitely draw a pair is the same as the number of socks you have to pull out to definitely have different kinds of socks, and there is no difference between left foot and right foot socks, how many socks are there in the box.

Ans: 4

3. A husband's watch runs 1 min fast every hour, while his wife's runs 2 minutes slow. How many hours have past, after they set their watches to the same time, if the difference in time between the watches is 1 hour?

Ans: 20 hours.

diff btwn my watch and hub= $2 - (-1) = 3$

3 mts diff for 1hr

60 mts diff is $(60 \times 1) / 3$

4. A farmer tells his wife " If we sell 75 of our chickens, we shall have enough stock for 20 more days." Then he says " if we buy 100 more chickens, we shall run out of our stock in 15 days". How many chickens do they have?

5. A ,B ,c are friends they went by cycle and weared a hat.

each one weared a hat of one friends and ride the bicycle of another friend.

A is wearing C's hat find who is riding a's cycle.

ans: C

Sol: if A is wearing c's hat then it will be riding b's cycle.

if so B will be wearing A's hat no other way since A's wearing c's hat

and riding c's cycle. then remaining c will be wearing b's hat and riding A's cycle

6. While traveling from one station to the next, after 1 hour a piston burst. As a result the party could only proceed at $\frac{3}{5}$ their original speed and arrived 1 hour late. If however the accident had happened 50 minutes later, they would have arrived 40 minutes earlier than the time they did arrive at. What is the distance between the stations?

7. Find the next number in the series :

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a) 364, 361, 19, 16, 4, 1, ____

Ans : 1 (series $x-3$, $y = \sqrt{x-3}$, $y-3$ )

b) 3, 6, 13, 26, 33, 66, ____

Ans : 63 (Alternate additions of multiples of 10 and 20)

8. Four friends Stacy, Erica, Robin and Mandy, belonging to the families Clark, Flure, Miller and Jacob decide to make fruit salads. Each person uses three fruits from among apples, bananas, cherries and grapes. The following conditions are given below:

- i) Each girl uses a different combination of fruit from the others
- ii) Erica does not belong to the Clarks or the Millers
- iii) Robin, who is not the miller's girl, uses cherries and grapes, but the Flure's girl only uses one of these fruit
- iv) Mandy and the Miller girl use both apples and cherries in their salads.

a) Which family does Robin belong to?

b) Which combination of fruit did the Miller girl use?

c) Which fruit did Erica NOT use?

d) Who is the Clark's girl?

9. A,B,C,D,E,F,G make the following statements

A: Day after tomorrow is Wednesday

B: You are wrong, tomorrow is wednesday

C: No, tomorrow is thursday.

D: All of you are wrong, it is not Monday, Tuesday or Wednesday

E: Tomorrow is Friday

F: Today is Wednesday

G: Anyway, yesterday was not saturday.

All but one person is correct.

Whos is correct and what day is it?

Ans : G (not sure)

10. Six men decide to cut logs in $1/2$ yards for a fire. The men are A, B, C, D, E, F (these are all their first names). They work in pairs. with A, C and E being leaders of each pair. A and B cut $1\frac{1}{2}$ yard logs, C and D cut 2 yard logs and E and F cut 1yard logs.

Jand K manage to make 26 logs, L and M 27 logs and N and O 28 logs (these are all their last names). The headmaster congratulates J,L and N on their fine leadership. What is B's last name?

(Note actual names were different, some confusing russian names)

Ans: B's last name is M. When you cut 1 and a half logs into half logs you get three half logs. Only 27 is a multiple of 3, and A is a captain.

18th April 2004

1: A man brought some watermelons to town and sold them. he sold $1/2$ more than $1/2$ of what he brought and he was left with one melon. how many melons did he bring to town?

Ans: 3

2: The reverse of my age is my son's age. One year back, my age was twice my son's age. what are the current ages of father and son?

Ans: 73 & 37

3: There will be four friends, one is doctor, one is lawyer... they are having four cars one ferrari, corvette there were some conditions and we were suppose to find what is profession of each one and what car they own. [8 marks]

4: There is a circular ring in which there are 12 black mice and one white mice . a cat walks circularly

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in the ring and eats every 12th mice. where should the cat start so that the white mice is the last one to be eaten by cat?

Ans: if the cat moves circularly it has to start from the 11th mice (clockwise) w.r.t. to white one.

5: a farmer grows four types of crops say W,X,Y & Z . two conditions were given:

1-> if the farmer grows crop W in a year then also grows X that year

2-> if the farmer grows crop Z one year then he never grows crop Y next year

there were 6 choices among which we were supposed to find one correct one which does not violate the two conditions the choices were some thing like:(first pair denotes crops grown first year and second after semicolon represents crops grown next year) W,X ; X,Z (this one is a valid one)

Ans: I don't remember the choices but the ans was option C

6: In a class there are less than 500 students . when it is divided by 3 it gives a whole number. Similarly when it is divided by 4,5 or 7 gives a whole number. find the no. of students in the class

Ans: 420

7: There are three types of birds A,B & C . A costs 5pounds, B costs 3 Pounds and C costs 1/3 of a pound. Find the no. of A,B &C such that u will get 100 birds for 100 pounds. (I think we were suppose to find 3 answers since there were 3 rows in the answer)

Ans: A : 4 , B : 18 ,C: 78

8: There are 5 persons who have won top five places in an event in Olympics . one of them asks all the five regarding thier positions, they reply as:

A: "i am not the last"

B: "c is in third place"

c: "E is behind A"

d: "B is in first place"

e: "D is not the first"

the persons who have won gold and silver have lied .find the positions in order(format: name of first, name of second,..)

Ans: B,D,E,A,C

9: A coffee seller has two types of coffee Brand A costing 5 bits per pound and Brand B costing 3 bits per pound. he mixes two brands to get a 40 pound mixture. he sold this at 6 bits per pound. the seller gets a profit of 33 1/2 percent. how much he has used Brand A in the mixture?

Ans: 30 pounds

10: Question unknown .

11th April 2004

1.While driving through the countryside one day I saw farmer a tending his pigs and ducks in his yard. I was curious to know how many of each he had. I stopped the car and inquired. Learning on the site jovially, He replied I have altogether 60 eyes and 80 feet between them. I drove off trying to calculate in my mind the exact number of ducks and pigs he had. What do you think is the answer? [3 Marks]

Answer:- pigs=13,ducks=17

2. Find the value of following chart

T ? R ? O ? M ?

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IF
T R O T
+ T R O T

R O O M

Answer:- T=2 , R=5 , O=0 , M=4 [3 Marks]

3. There was three queens named amina, yina, FATINA and they used three type of jewelry like Diamond , Gold, Embraced and Three thief named abu, kistra and badri . Some conditions are given like the eldest queen not used gold the BOM was friend of youngest queen.(Four more conditions are

given I could not remember) Finally they asked

Queens Thieves Jewelry

Sify ? ?

TANIA ? ?

FATINA ? ?

Answer:- easy one. [6 Marks]

4. A man working in MNC for going office he used daily local trains which was shouted in the morning There was two type of trains one is type A and other was type B . The frequency of both trains was 10

minutes if one trains (type A)start at 5:00 AM so second (Type B)start at 5:02 A.M and after that it continuously running in every 10 minutes .A Man went to the station a random time in the morning what is the number of chance he got type A train mostly rather then type B trains.

[4 Marks]

Answer:- 8 times changes he got type A train

5. same old dravid,abhor,maghar marriage question. [8 Marks]

Answer:-

(1) a

(2) c

(3) d

(4) d

6. A person Buy some clothes from wholesale at some discount and think when will he sale it at retail price he get 40% profit.But some how after selling whole clothes he feel that he get 39% lose. After searching the reason he came to know his Weight meter (clothe meter) is not proper .Can you tell we How much meter weight and is it more or less from normal. [4 Marks]

7. Two boys A and B work as a part time in a shop . A works every after 2 days while B Works every after 3 days,A start working at 1 June Thursday while B start working at 2 June Wednesday Can you tell in which date of month they work together. [4 Marks]

Answer:- 10 June Thursday they work together [after 2 days from 1 June means next at 4 June not in 3 June similarly for other]

8. A car is travelling at uniform speed.The driver sees a milestone showing a digit number ,after travelling for an hour the driver sees another milestone with the same digits in reverse order after

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another hour the driver sees another milestone containing the same two digits what is the average speed of the driver. [6 Marks]

Answer:- 45 Kmph

9. A, B, C, D, E, four persons are given and they are involved in six professions like consultant, Technician, Artist, Neurologist, physician. Some conditions were also given like

(i) Consultant was youngest of all four

(2) Technician was not oldest to B who is not youngest the artist

(3) one more condition, I could not remember

(4) C is not youngest of all

Finally asked the profession of every individual person

[6 Marks]

10. Jonty went for movie with his family but at the ticket window a lot of rush present so he was getting upset, then his father told him I am giving you a puzzle for you, so that your time pass properly, he was agree then his father told him here lines of people at every after third man there was a kid, but number of man and women is three times to the number of kids, Total people value lies between 800 to 1000. Can you tell me number of kids and number of adults. [6 Marks]

21st March 2004

(1) Two stations connected by railroad. Trains start every hour from each station to the other, at the same time. A Train takes 5 hours to reach the other station. How many trains will a train meet during its journey?

(2) A weighing balance of unequal length bars. One kilogram on left pan is equal to 8 melons on the right pan. One kilogram on right pan equal to 2 melons on the left pan. What is the actual weight of the watermelon?

(3) A big cube painted red on all 6 sides. It was cut into 27 smaller cubes by 6 straight lines. How many of the smaller cubes painted red on 3 sides, 2 sides, one side and none?

(4) 6 shoes of three brands and 24 socks of black and brown colours. How many shoes and socks to be taken out in dark to get a matching pair?

(5) 5 glubs killed by 5 knights. The slain 5 glubs are laid on the ground with from head to toes in a line of 200 ft. There is a gap of 5 feet between each successive head and toe. First, third and last of the glubs are of same length and so as second and fifth are of each height. Find the height of each glub?

(6) If a cyclist takes 3 mins in the direction of wind for a distance of 6 m and 4 minutes against the direction of the wind. Assuming the cyclist applies same force on the pedals at all times, find the time taken by the cyclist in No wind?

(7) A cart driver at the quarry picks the stonecutter from the ferry station every morning at 6:00 am. If one day the stonecutter arrives at the ferry early and walks towards the quarry, he meets the cart driver on the way and together they reach the quarry 20 minutes early. At what time did they meet each other?

(8) a) 1, 2, 3, 5, 16, ____.

b) 1, 2, 3, 8, ____, 224.

(9) Temperature of 5 days recorded. Their product is 12. Find the temperatures?

(10) A, B, C, D, and E - They have stories to tell about who went for a circus. 2 are liars and one is true. Only one went for circus and who?

22nd Feb 2004

1. Mr. John walked 10 yards down X street then he turned left and walked 10 yards down Y street. He again turned left and walked 10 yards down in Z street then he turned left and walked 15 yards

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along another street then he turned left and walked 10 yards down that street again he turned left and walked 5 yards which street was he in ?

Ans. Y street (sure)

2.Uncle reuben and aunt cynthia came to town to shop reuben bought a suit and hat for \$15 cynthia paid as much as for her hat as reuben did for his suit then she spent the rest of their money for a new dress on the way home cynthia called reubens attention to the fact that his hat cost \$1 more than her dress then she added if we had divided our hat money differently so that we bought different hats mine costing 1 and 1/2 time cost if yours then we each would have spent the same amount of money in that case said uncle reuben "how much would my hat have cost"

Ans. Uncles hat costs \$6.2 (total money was \$29)(not sure)

This question is repeated from 18 jan 2004 info test.

3.Ricky Gooch and his friends decided to get together to celebrate his birthday.there were 11 people at the party they clinked glasses with each other every person with evry person just once how many times did the glasses clink?

Ans. 55 times(sure)

This is similar to Handshaken problem from shakunthala devi

4.A spider spins its web in a window frame each day it spins an area equal to that of the amount already completed it takes 30 days to cover the entire window frame how long would two spiders take?(in case of two spiders each of them spins an amount qual to the area of the existing part of the web made by that particular spider)

Ans. 29 days(not sure)

5.Mr.A lies on Mondays Tuesdays and Wednesdays Mr.B lies on Thursdays Fridays and Saturdays MrA said "Yestarday was one of my lying days" MrB said "Yestarday was one of my lying days too" What day of the week was it?

Ans. Thursday(sure)

6.The captain of the pirates comes home after 6 years of prison and says i was 5 times older than my son when i started my prison term but now i am only 3 times as old as he is when my son gets twice as old as he is now I will be twice as old as him how old ws the captain when his son was born?

Ans. 24 years (sure)

7. Dori Juanita and Leona each had a test today One test was in MusicOne test was in Reading One test was in Spelling the test grades were A B and C

* Dori's grade was lower than both Juanitas grade and the reading test grade

* The spelling test grade was higher than the reading test grade

What test did each person take and what was the grade on the test?

Ans. Juanita	Spelling A (not sure)
Leona	Reading B
Dori	Music C

8. At last weeks girl guides picnic four girls were tucking into their packed lunches jane had muffins but Denise didnt have orange juice the girl who had blackcurrant juice also had scones and Jessica had blueberry juice The girl who had cake also had strawberry juice whereas Alice didnt have the strawberry juice nor toast Can U work out who had which drink and which dessert?

Ans. Alice Blackcurrant Juice Scones (not sure)

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Janes	Orange Juice	Muffins
Denise	Strawberry Juice	Cake
Jessica	Blueberry Juice	Toast

9. Alma Bess Cleo and Dina visited Edna on Saturday. The time of each visit is as follows:

Alma at 8 o'clock

Bess at 9 o'clock

Cleo at 10 o'clock

Dina at 11 o'clock

At least one woman visited Edna between Alma and Bess. Alma did not visit Edna before both Cleo and Dina. Cleo did not visit Edna between Bess and Dina. Who visited Edna last?

Ans. Alma (sure)

10. Jeanine is bored playing with blocks while babysitting her baby brother. To keep herself amused, she decides to stack up all the blocks so that each row has one less block than the row below. There are a total of 55 blocks and Jeanine wants to end up with just 1 block at the top. How many should she put in the bottom row?

Ans. 10 Blocks (sure)

This question is repeated from 6 Jul 2003 Infosys test.

18th Jan 2004

1) There are 15 poles at equal distance beside the railway track. If a train moves from 1st pole to 10th pole in 10 minutes. How much time will it take to touch 15th pole?

2) A thief tries to escape from jail in five different ways:

- a) Disguising in dress of a visitor
- b) By making a tunnel
- c) by killing the police
- d) By joining the party (function) and escape with group
- e) I don't remember this condition

from Monday to Friday. Asked to find on which day he tries in which manner. The following conditions were given:

He tries to escape by disguising in the form of visitor two days before trying to escape by making a tunnel.

On immediate day after making tunnel he tries by killing the police.

He tried to escape by joining the party one day after e) condition and one more condition was given.

3) There is a cube with all faces painted red. If we cut it into 27 pieces with six straight cuts. How many cubes will be there with:

- a) 3 sides painted red
- b) 2 sides painted red
- c) 1 side painted red
- d) 0 sides painted red.

4) A man jumps into a river from an overbridge. At the same time a hat drops in the river which flows with the stream of the water. That man travels 10 minutes upstream and returns back where he was asked to catch the hat. He catches the hat at a distance of 1000 yards down at a second bridge. Find the speed of the river. (Some different wording was given)

5) In a shelf there were 17 blue, 15 red, 10 yellow, 15 black, 20 green ties. Suddenly lights were put

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off . he decided to take the ties in darkness.what are the minimum of number of ties that are to be taken from shelf so that he gets the at least two ties of same colour.

6)There was some question on buying hats and dress by aunt and uncle(but it was easy).

7)Given names of 6 people and given 10 conditions from that we have to get the ages of those people and places they live (It can be thought as a bonus problem as it was very easy for 10 marks).

8)two trains of length $\frac{1}{6}$ miles are moving toward each other with a speed of 60 miles per hour.approaching toward each other .In how much time the two locomotives cross each other.

9) a train after running for one hour blasted balloon(something I don't know exact word)after one hour starting from the station and runs with $\frac{3}{5}$ th of its original speed and reaches the destination two hour late. If the blast has occurred after more 50 miles if accident has occurred it might reached the destination 40 minute earlier. Determine the distance starting station to the destination.

21st December - 03

1. The following information is available about a group of young men in a colony.[Marks: 8]

All handsome, fair skinned, muscular, lean, employed, and rich men are tall.

All handsome men are fair skinned.

Some muscular men are handsome.

Some muscular men are not fair skinned.

All lean men are muscular.

No lean man is handsome.

No fair skinned man who is not handsome is rich.

All tall men who are neither fair skinned nor muscular are employed.

1. pramod is not fair skinned. Which of the following must be true ?

a) pramod is employed

b) if pramod is muscular, he is neither handsome nor lean

c) if pramod is tall, he is employed or muscular.

d) if pramod is not employed, he is muscular.

e) if pramod is tall, he may be muscular or handsome, but not both.

2. which must be false if the information given is true ?

a) no lean men are fair skinned.

b) some fair skinned are lean.

c) some rich men are both fair skinned and muscular.

d) some tall men are neither fair skinned nor employed

e) some rich men are lean

3. which of the following can be deduced from the information given ?

a) all rich men are handsome

b) some rich men are handsome

c) some rich men are employed

d) some rich men are muscular

e) all rich men are handsome, muscular, or employed

4. which cannot be shown to be true or false on the basis of the information given ?

I. No fair skinned or muscular man is employed

II. Some muscular men are fair skinned but not handsome

III. No fair skinned man both handsome and lean

a) I only

b) II only

c) III only

d) I and II

e) II and III

Ans: 1) C 2)D 3) E 4)B

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2.

[

Marks : 4]

After gathering 770 chestnuts, three girls divided them up so that amounts were in the same proportion as their ages. As often as Mary took four chestnuts, Nelli took three, and for every six that Mary received, Susie took seven. How many chestnuts did each girl get ?

Ans: 308, 278, 194

3.

[Marks : 5]

A supportive young hare and tortoise raced in opposite directions around a circular track that was 100 yards in diameter. They started at the same spot, but the hare did not move until the tortoise had a start of one eighth of the distance (that is, the circumference of the circle). The hare held such a poor opinion of the other's racing ability that he sauntered along, nibbling the grass until he met the tortoise. At this point the hare had gone one sixth of the distance. How many times faster than he went before must the hare now run in order to win the race ?

Ans: mostly 22 times than its before speed

4.

[Marks : 4]

Ajit was driving down the country side when he saw a farmer tending his pigs and ducks in his yard. Ajit asked the farmer how many of each he had. The farmer replied that there were 60 eyes and 86 feet between them.

How many ducks and how many pigs were there ?

Ans: 13 pigs and 17 Ducks

5.

[Marks : 4]

In Mulund, the shoe store is closed every Monday, the boutique is closed every Tuesday, the grocery store is closed every Thursday and the bank is open only on Monday, Wednesday and Friday. Everything is closed on Sunday.

One day A, B, C and D went shopping together, each with a different place to go. They made the following statements:

A	D and I wanted to go earlier in the week but there wasn't day when we could both take care of our errands.
B	I did not want to come today but tomorrow I will not be able to do what I want to do.
C	I could have gone yesterday or the day before just as well as today.
D	Either yesterday or tomorrow would have suited me.

Which place did each person visit ?

Ans: I didn't do the answer for this

6.

[Marks : 6]

The Novice hockey tournaments are on for beginners. Just three teams are in the league, and each plays the other two teams just once. Only part of the information appears in the result chart, which is given below.

Team	Games	Won	Lost	Tied	Goals For	Goals against
A	2			1	0	
B	2	1			1	2

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C	2					
---	---	--	--	--	--	--

The scoring pattern in the tournament is as follows:

Two points are awarded to the winning team. In case of a tie, both teams are awarded one point, so the total points in the standings should always equal the total number of games played (since each game played is counted as one for each of the two participating teams). Of course, total goals scored for and goals scored against must be the same, since every goal scored for one team is scored against another.

The games are played in the following order: Game 1: A Vs B; Game 2: A Vs C; Game B Vs C

Can you determine the score of each of the above games ?

Ans: A B 0 1

A C 0 0

B C 0 2

7.

[Marks : 8]

A recent murder case centered around the six men, clam, flip, gront, herm, mast, and walt. In one order or another these man were the victim, the murderer, the witness, the police, the judge, and the hangman. The facts of the case were simple. The victim had died instantly from the effect of gunshot wound inflicted a shot. After a lengthy trial the murderer was convicted, sentenced to death, and hanged.

* Mast knew both the victim and the murderer.

* In court the judge asked clam his account of the shooting.

*Walt was the last of the six to see flip alive.

*The police testified that he picked up gront near the place where the body was found.

*Herm and walt never met.

What role did each of the following play in this melodrama ?

a) Murderer

b) Victim

c) Judge

d) Witness

8.

[

Marks : 5]

Fodder, peps and cereale often eat dinner out.

a) each orders either coffee or tea after dinner.

b) if fodder orders coffee, then peps orders the drink that cereale orders

c) if peps orders coffee, then fodder orders the drink that cereale doesnot oder

d)if cereale orders tea, then fodder orders the drink that peps orders

which person/persons always orders the same drink after dinner ?

Ans: According to George summers Fodder always drinks Tea

9.

[Marks : 6]

At a recent birthday party there were four mothers and their children. Aged 1,2,3 and 4. from the clues below can you work out whose child is whose and their relevant ages ?

* It was jane's child's birthday party.

* Brian is not the oldest child.

* Sarah had Anne just over a year ago.

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

- * Laura's Child will be next birthday.
- * Daniel is older than Charlie is.
- * Teresa's child is the oldest.
- * Charlie is older than Laura's child.

Ans: Anne-1year-Anne
Brian-2year-Leura
Chearlece-3years-Jane
Denial-4years-Tesera

Pune 8th Dec

1. one stamp collector arranges his stamps in some order, whenever he arranges stamps in group of 2 or 3 or 4 or 5 or 6 one stamp left, but when he arranges in such a order that every group is having 7 number of stamps then nothing is left. How many stamps he is having. (sentence is somewhat changed).

2. Two wine merchants reached on Paris gate. A is having 64 barrels wine and B is having 20 barrels. A paid 5 barrel plus 40 franc as tax and B paid 2 barrels and got 40 francs in return. What is the cost of one barrel and how much is tax per barrel.

3. There are two barbers both take same time for hair cut and shave. If 15 min required for hair cut and 5 min for shave. What is the possible minimum time if there are three customers in their shop for hair cut as well as shave.

4. One painter is having seven paintings to exhibit T, U, V, W, X, Y and Z out of them only 5 she selects for exhibition. (8 marks) i. If T selects then X can not.

ii. If U selects then Y is must

iii. If V selects then X is must.

a) which group she can choose. - 4 option

b)

c)

d)

5. One race we have completed with the speed of 10 miles per hour, while returning because of smooth traffic we come back with 15 miles per hour speed. So what was our average speed? 2 marks

6. One village has three castes A, B and C.

i. A can't marry with C woman

ii. B can't marry with C man.

If a couple have a boy he gets father's name if girl then

mother's. depending on this there were 4 objective questions. (8 marks)

a)

b)

c)

d)

7. two series

i. 3, 6, 13, 16, 33

ii.

8. A says to B "when we met last exactly 4 years back, you were having two kids, how old they are now?" B says "Not two, three meanwhile".

"The product of their ages is ninety six, and sum is equal to your house number." A says "You are smart". But I am not sure tell me more. B says "It's easy you can find it"

Question: What is the sum of their ages? (6 marks).

9. 'A' with her baby going towards park, she meets a person who is her Husband's Mother's only Daughter in law's sister's Husband. Who is this person with 'A'?

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

10. One bag is having three kinds of apples. Tell the minimum turns for having all three apples of same kind if I am picking up one at a time.

Pls Check the answers.

Ans:

10. 7 turn.

9 Brother in Law

8. 21

7.

6.

5. 12.5 miles/hour

4.

3. 30 min

2. barrels prize 120: tax is 10

1. 721

7th Decemler 2003

Place: Mount Carmel College, Bangalore

Two travelers, one with 64 barrels of wine, other with 20 barrels of wine. They don't have enough money to pay duty for the same. First traveler pays 40 francs and gives his 5 barrels, Second traveler gives his 2 barrels but gets 40 francs in exchange. What's value of each barrel, and duty for each barrel?

What is Ann's relation with her husband's mother's only daughter-in-law's sister's husband?

Some guy holding a glass of wine in his hand looking around in the room says, "This is same as it was four years ago, how old are your two kids now?" Other guy says "Three now, Pam had one more in the meanwhile." Pam says, "If you multiply their ages, answer is 96 and if you add the ages of first two kids, addition is same as our house number." The first guy says, "You are very smart but that doesn't tell me their ages." Pam says, "It's very simple, just think."
What are the ages of three kids?

There are seven paintings T, U, V, W, X, Y, Z of which she has to select five for the exhibition. Following are the conditions:

- a. If T is selected, X cannot be selected

If U is selected, Y must be selected

If V is selected, X must be selected

Answer following questions: (4 options for each sub-question, Don't remember options exactly)

- (i) Find the correct sequence of exhibits from the following:
- (ii) If V is selected then which of the following is true?
- (iii) Don't remember this question
- (iv) If in the selected sequence one exhibit replaces other without violating conditions, which of the following replacement is possible?

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A motor cyclist participant of a race says "We drove with the speed of 10 miles an hour one way, but while returning because of less traffic we drove on the same route with 15 miles per hour." What was their average speed in the whole journey?

There are three tribes, Abhor, Dravid and Magar.

- a. Abhor women can't marry Dravid man
- b. Magar man can't marry Dravid woman
- c. Son inherits tribe from his father and a daughter from her mother
- d. All other combinations are possible
- e. There's no wedlock

Four sub-questions for this. Don't remember exactly but were like this: Can abhor and magar couple have dravid descendents, magar daughter, etc.

Given following sequence, find the next term in the series:

(i) 0, 2, 4, 6, 8, 12, 12, 20, 16, ____

(ii) 3, 6, 13, 26, 33, 66, ____

Three customers want haircut and a shave. In a saloon, two barbers operate at same speed. They take quarter of an hour for the haircut and 5 mins for the shave. How quickly can they finish the haircut and shave of these three customers?

A shopkeeper likes to arrange and rearrange his collection of stamps. He arranges them sometimes in pair, sometimes in bundle of three, sometimes in bundle of fours, occasionally in bundle of fives and sixes. Every time he's left with one stamp in hand after arrangement in bundles. But if he arranges in the bundle of seven, he's not left with any stamp. How many stamps does a shopkeeper have?

Three different types of objects in a bucket. How many times does one need to select object from the bucket to get atleast 3 objects of the same type?

30 th Nov 2003

I 1) Problem about 3 guys Tom, dick and harry - One say the truth always , one always lies blah blah who is who

Ans: Dick

Harry

tom

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

2) We are given 100 pieces of a puzzle. If fixing two components together is counted as 1 move (a component can be one piece or an already fixed set of pieces), how many moves do we need to fix the entire puzzle.

Ans: 18

3) This problem has appeared b4. 4 kids from 2 families Gupta and sharma... their names are Praveen, Pra... blah blah...and some relation... which family and what are their ages..

Ans: Sinhas - 11(praveen)

Sinhas - 5(lalit)

Gupta - 10(pratap)

Gupta - 7 (rajesh)

4) This was one hell of a long problem - But it has appeared before.. Two girlz after one guy (sue, swe and sam i think)..Sue first asks his house no... he replies with two statements (second is false) so she goes to the wrong house... blah blah.. same thing happens with the other gal

What was the house number of sue and sam

Ans: 20 and 24

5) A complex statement - about an aeroplane coming late. "The boy says if it was 6 hours later, the waiting time would be 1/5th of the time if the plane had come 2 hours earlier instead. the plane is supposed to come at midnight

Ans 11.00 a.m

6) There are 4 statements and 4 guys (Dave, Gus, someone else and one more someone else) - sorry my memory is rotten! Anyway now these guys make 4 statements abt. who committed the crime. We need to find out who did it if (i) all but one are saying false and (ii) all but one are saying true

Ans: (i)archie(ii) tony

7) A kid goes to a bank with a cheque... Comes back and says he spent 35 cents .. his mom says you have brought back twice what u ver supposed to get. What happened is the novice bank clerk gave dollars for cents and vice-versa(quote silly) anyway... What was the actual amount??

Ans: don't know...

8) Two guys work at some speed...After some time one guy realises he has done only half of the other guy completed which is equal to half of what is left !!! #\$\$%#\$

Sohow much faster than the other is this guy supposed to do to finish with the first... (This one stumped me)..

Ans: twice

9) I forgot this problem completley - damn just 3 hrs since i gave the test

Ans: 20

10 finally, a series 2, 8, 64, 512 next one

Ans: $512 \times 256 = 131072$..something.

Nov 2003

1). Ann,Brian,Cedric and Dave were Architect,Barber,Caretaker and Dentist not necessarily in that order.

a)Atleast one but not all have the initials of occupation and name as same alphabet.

b)The architect did not have 'r' in his name

c)The dentist and barber had exactly one alphabet common in their names.

Tell the occupation of Ann and Cedric (4 marks)

2). John had a square farm.This year he had a larger square patch and hence he had 211 cabbages more than previous year.How many cabbages did he have the previous year.(4 marks)

3) An old man had 1000 rs. and he wanted to distribute them among his five sons according to their ages such that a son received 20 rs more than the younger one.Watson was the youngest one.How much did watson receive.? (4 marks)

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

4). There are 100 bulbs and 100 switches, one switch for each bulb. Initially all the switches are ON and the bulbs are glowing. Then following actions are performed....

a) The switch numbers divisible by 2 are turned OFF if they are ON, and turned ON if they are OFF.

b) The switch numbers divisible by 3 are turned OFF if they are ON, and turned ON if they are OFF.

c) The switch numbers divisible by 4 are turned OFF if they are ON, and turned ON if they are OFF.

and so on..... till switch numbers divisible by 100...

Find the number of bulbs glowing at the end. (6 marks)

5) An old man had some gold coins which he wanted to distribute among his 5 sons and 5 daughters. He gives 1 gold coin to his driver and then $\frac{1}{5}$ of remaining to his first son. Again he gives 1 coin to his driver and $\frac{1}{5}$ of the remaining to his second son and so on till the last son. He does the same thing with his daughters. How many gold coins did the old man have initially? (6 marks)

6) A murder took place and there were 5 witnesses who give the following description about the murderer...

witness A-murderer had blue eyes, he was tall, he wore a hat and vest.

witness B-murderer had black eyes, he was short, he wore a hat and vest

witness C-murderer had brown eyes, he was Medium sized, he wore a hat and raincoat

witness D-murderer had grey eyes, he was tall, he didn't wear a hat and he wore a vest.

Each one of them gave exactly one fact correct. Describe the murderer in terms of eyes, height, hat, vest and raincoat. (6 marks)

7) A weighing pan was faulty as it had one arm longer than the other. 3 cube weights on right side balanced 8 pot weights on left side and 6 cube weights on left side balanced 1 pot weight on right side. One cube weight weighs one ounce. Then find weight of one pot weight. (4 marks)

8) When the actual time passes 1 hr the wall clock is 10 min behind it. When 1 hr is shown by wall clock, table clock shows 10 min ahead of it. When table clock shows 1 hr the alarm clock goes 5 min behind it, when alarm clock goes 1 hr wrist watch is 5 min ahead of it assuming that all clocks are correct with act

3rd Sept 2003

1) Every station in N railroad issues every other station's ticket. Some stations are added. Now they have to issue 46 more tickets. Give the No. of stations after and added. (5 marks).

2) There was a race between 3 ppl; Me, Doug and Anne. When I take 21 steps the distance covered is equal to Doug's 24 steps and Anne's 28 steps. I take 6 steps to every 7 steps of Doug and 8 steps of Anne. Who won the race?

3) How many bearers will an explorer need for a 6 day march if each man can carry the food stuff of one man for 4 days.

4) Consider the following statements:

Albert: Dave did it.

Dave: Tony did it.

Gug: I did not do it.

Tony: Dave lied when he said that I did it.

(a) If only one out of all above statements is true, who did it?

(b) If only one out of all above statements is false, who did it?

5) A contribution of Rs. 500 was raised from 500 people. The fee was as follows:

Men: Rs. 3.00 each

Women: Rs. 2.00 each

INFOSYS Previous Questions Version 2.1

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Children: 0.48 each

If number of women is more than number of men, how many children are there? (5 marks)

6) Alice and Liu had some berries. The total of Alice's berries and square of number of berries with Liu is 62. The total of Liu's berries and square of number of berries with Alice is 176. How many berries does each of them have? (6 marks)

7) A rope ladder was left down from a ship. 12 steps of the ladder were exposed at 10:00 am.

The queen who was going to visit the ship, said she would visit at 1:00 pm as she would have to climb lesser number of steps then. The tide in the sea increases from morning to afternoon at the rate of 1.2 meters per hour. The distance between any 2 steps of the ladder is 0.4 mts. How many steps will the queen have to climb?

8) 5 hunters Doe, Deer, Hare, Boar and Row kill 5 animals. Each hunter kills an animal that does not correspond to his name. Also each hunter misses a different animal which again does not correspond to his name.

a) The Deer is killed by the hunter, known by the name of the animal killed by Boar.

b) Doe is killed by the hunter, known by name of animal missed by Hare.

c) The Deer was disappointed to kill only a Hare and missed the Roe.

9) there was 1 more on moon gravity $1/6$, weight ... or something... don't remember. A difficult one. Needed some knowledge of physics i guess.

29 Aug 2003 Cochin (Shreds)

1. A man was travelling to a place 30 miles away from starting point. he was speeding at 60 miles/hr. but when he came back, his car got breakdown and half an hour was wasted in repairing that. altogether he took 1 hr for return journey. Find the avg. speed of the whole journey.

2. I'M NOT VERY SURE REGARDING THIS QUESTION.

A detective was assigned to generate a code using 4 digits, so that no one could break it. he knew that if the code starts with 0, 5 or 7 it will be cracked. so how many numbers can be formed using 4 digits.

3. A cow was standing on a bridge, 5 feet away from the middle of the bridge. suddenly a lightning express with 90 miles/hr was coming towards the bridge from nearest end of the cow. seeing this the cow ran towards the express and managed to escape when the train is one foot away from the bridge. if it would have ran to opposite direction (ie away from train) it would have been hit the train one ft away from the end of the bridge. Calculate the length of bridge.

4. there are 3 towns attacked by 3 dragons-x, y, z. Number of days x attack a town is equal to number of days y attacking another town. Number of days x attack is equal to half the square root of number of days z attacking a town. number of days y attacking the town is twice the square root of z. calculate how much days the curse of each dragon be.

5. 5 Boys and 5 Girls went for a movie. the problem is based on their seating. analytical one and 3 or 5 sub questions were there on this question simple one.

6. A town have a population of 500000 and 42% of males and 28% of females are married to same town. find the total number of males

7. An analytical one based on 4 persons and their occupation

8. another analytical one

9. A and B came back home after their exam and their father asked them about the test.

A replied-- $1/3$ rd of my answers were wrong

B replied-- 5 of my answers were wrong but together we got $3/4$ of answers right.

How many questions were there for the exam?

10. if $x, y < 0$ and $z > xy$ then which condition is false

4 conditions were given and one condition is wrong. you need to identify that.

24 Aug 2003

Totally 9 Questions. - 50 marks.

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

- 1) There is a five digit number. The fifth digit is one fourth of the third digit and one half of the fourth digit. Third digit is one half of the first digit. second digit is 5 more than the fifth digit. What is that 5 digit no.?
- 2) There are three associates and they have some money in a room. But no one is believing others alone. so, a) No one should be able to open the room alone.
b) When any 2 persons are combined they should be able to open the room. What is the minimum no. of locks & keys required.? (5M)
- 3) A simple racing prob. like Samantha beat Jim. Jack lost to Jim. John was not last. And the prob goes like this... (simple)
- 4) A boy goes to school from his house. on one fourth of his way to school, he crosses a machinery station. And on one third of his way to school, he crosses a Railway station. He crossed the machinery station at 7:30 and he crosses the Railway station at 7:35. when does he leave the house & when does he reach the school ? (5M)
- 5) An Eraser, Pencil, Notebook together costs \$1.00. Notebook costs more than the cost of 2 Pencils. 3 Pencil costs more than 4 Erasers. 3 Erasers costs more than a Notebook. How much does a pencil costs? (5M)
- 6) I can't remember the prob. fully. (* Check this in previous questions. Its there!)
Old Problem with three inhabitants of three castes. Abhor, Magar & Dravid. (8M)
 - 1) Abhor women cannot marry Dravid man.
 - 2) Dravid women cannot marry Magar man.
 - 3) Male child gets the father's caste and female child gets the mother's caste.
 - 4) all other marriages are allowed.
 - 5) ...

4 questions related with this...each of 2 marks... like...

- 1) A magar man can have ...
 - a) a dravid grandmother.
 - b) a abhor mother.
 - c)....
- 7) Series...
 - a) 3,6,13,26,33,66, ?
 - b) 364, 361, 19, 16, 4, 1, ?
- 8) A large cube is painted on all sides with Red color. It is then cut into 27 small cubes. How many sides of the cube will have...
 - a) 3 red faces.
 - b) 2 red faces.
 - c) 1 red face.
 - d) No red faces. (8M)
- 9) Four persons A,B,C,D were there. All were of different weights. All Four gave a statement. Among the four statements only the person who is lightest in weight of all others gave a true statement.
A Says : B is heavier than D.
B Says : A is heavier than C.
C Says : I am heavier than D.
D Says : C is heavier than B.
Find the lightest & List the persons in ascending order according to their weights. (5M)

23 Aug 2003

1. A alone can do a work in 6 days B alone can do in 8 days with help of C they finished the work in 3 days. If the agreed sum is 640 what is the share of C. (refer r.s agarwal)
2. A drives a car four times a lap 10, 20, 30, 60 kmph what is the average speed.
3. speed of boat in still water 10 km, if speed up stream is 24 km and speed down stream is 16 what is speed of the river.
4. If grand father age is sum all the three grand children whose age is in equal interval

INFOSYS Previous Questions Version 2.1

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what is the age of the grand father? (refer r.s agarwal)

5. In a grass field if 40 cows could eat for 40 days. The same grass field can feed 30 cows for 60 days. How long will it feed 20 cows?

6th July 2003, Morning

1) 6 poets, liking and disliking of poetry. E.g.: All who like the poetry of Frost do not like the poetry of Coolidge. Some who like the poetry of Dunne like the poetry of Earl. 4 related questions are given on these conditions.

2) 4 people, 4 products. E.g.: Vickie will not get a tie unless George buys a scarf. Remmie will not get a hat unless Jack buys gloves. Around 12 statements like this. Who will buy what?

3) 13 kigs and 6 libs can produce 510 tors in 10 hrs, 8 kigs and 14 libs can produce 484 tors in 12 hrs. Find the rate of production of tors for kigs and libs. Express the answer in tors/hr.

4) Find the 3 digit no. whose last digit is the square root of the first digit and second digit is the sum of the other two digits.

5) Meera was playing with her brother using 55 blocks. She gets bored playing and starts arranging the blocks such that the no. of blocks in each row is one less than that in the lower row. Find how many were therein the bottom most row?

```

      x
     x x
    x x x
   x x x x
  x x x x x
 x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x x
x x x x x x x x x

```

(They didn't give this picture, but my explanation is not clear, that's I gave u this picture)

6). Rahul took part in a cycling game with many others in a circular closed circuit. After pedaling for several minutes, he found that $\frac{1}{5}$ th of the cyclists ahead of him and $\frac{5}{6}$ th of the cyclists behind him together formed the total no. of participants. How many were participating in the race?

7). Age sum involving 3 people. Similar to sum no. 127 in Shakuntala Devi but very much tougher than that sum.

8). Tom wants to catch a hare. He is standing 250 yards south from the hare. The hare starts moving due east. Tom, instead of moving in the northeast direction, moves in such a way that at every instant, he is going towards the hare. If speed of Tom is one and one-third times that of the hare, find the distance each traveled before he caught the hare.

9). Two people are playing with a pair of dice. Instead of numbers, the dice have different colors on their sides. The first person wins if the same color appears on both the dice and the second person wins if the colors are different. The odds of their winning are equal. If the first die has 5 red sides and 1 blue side, find the color(s) on the second one.

10). A company's director said during the board meeting: "The company's income from roads will be sufficient to pay 6% of the entire stock issue, but since we are paying 7.5% interest on the preferred stock of Rs. 4,000,000 we are able to pay only 5% of the common stock". Find the value of the common stock.

6th July 2003, Afternoon

INFOSYS Previous Questions Version 2.1

Compiled by Cherian Tinu Abraham <http://www.cherian.itgo.com>

1) A car is traveling at a uniform speed. The driver sees a milestone showing a 2-digit number. After traveling for an hour the driver sees another milestone with the same digits in reverse order. After another hour the driver sees another milestone containing the same two digits with a zero in between (0). What is the average speed of the driver.

Ans: 45 kmph

2). Mr. ANYMAN left ANYTOWN by car to attend a wedding at ANYCITY. He had been driving for exactly two hours when the car got punctured. It took his driver exactly ten minutes to change the wheel. In order to play safe they covered the remaining distance at a speed of 30 mph. consequently, Mr. ANYMAN was at wedding half an hour behind schedule. Had the car got the puncture only 30 miles later, I would have been only FIFTEEN minutes late he told the driver. How Far is ANYCITY from ANYTOWN.

Ans: 120 miles

3) There are three persons A, B, C. one day they set out in different directions and each one steals an animal. The animals are camel, horse and a mule though not in the order. A CBI officer catches them and on interrogation he has the following statements:

A says: B has stolen a horse

C says: A is telling wrong, B has stolen a mule.

B says: A and C are both telling wrong. I have stolen nothing.

The person stealing a camel tells wrong while the person with a horse tells right. So tell which person steal which animal.

Ans: A: Camel

B: Mule

C: Horse

4. There are 3 societies A, B, C. A lent tractors to B and C as many as they had already. After some time B gave as many tractors to A and C as many as they have. After sometime C did the same thing. At the end of this transaction each one of them had 24. Find the cars each originally had. This question was bit differently asked with the same thing.

Ans: A had 39 cars,

B had 21 cars

C had 12 cars

5. Alpha, Beta, gamma, delta and epsilon are friends and have birthdays on consecutive days though may not be in order. Gamma is as many days old to Alpha as Beta is younger to Epsilon. Delta is two days older than Epsilon. Gamma's Birthday is on Wednesday. Tell whose birthday is when.

Ans: Alpha: Friday

Beta: Saturday

Gamma: Wednesday

Delta: Tuesday

Epsilon: Thursday

6. The quarter of the time from midnight to present time added to the half of the time from the present to midnight gives the present time. What is the present time?

Ans: 9hrs past 36 minutes AM

7. A girl was on a vacation when she happened to notice a snake. The snake was either black, brown or yellow in colour and 35, 45 or 55 m long. She makes the following remarks: Don't remember exactly but the answer I wrote was 55 m and brown colour snake.

The remaining two questions were logical and lengthy. I could not get time. Anyways one was relating to six persons from six places and professions are given.

u have to match each person along with the profession and his place.

8th June 2003.

1. There are two clocks one runs 1min/hrs faster and other 1min/hr slower

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when will the two clocks have time difference of 1 hr :
ans : 30hrs

2.

i take a taxi whose no is 3 digit no. it is not divisible by 2,3,5,7 but divisible by 11 it is the smallest no possible:

ans : 121

3. three friends start with x marbles each after first round A gives ...to B...toC,
after second round B does similar , after 3rd round C does similar,
they have now marbles as How many marbles they started with:

ans : 20

simple trick is to form equation and solve backwards

there is bound to be one 8 marks ques of complex arrangement..
so prepare for that. cat material on complex arrangement is also
sufficient for that

--

there is good possibility of ques from clocks,calender,permutation,
comb,probability

--

in time,speed,distance the 8th june paper had distances and speeds in
different units like inches,feet,m,yards etc so prepare for
distance conversion formulae

11th May 2003

1. A Couple decided to travel a north country side .so they decide to travel a minimum amount on car the first day and the second and subsequent day a distance of 20 miles .If they travel a total amount of 1080 miles.Find the distance travelled on the 4th day and the 9 day.

2. A cardboard of 34×14 has to be attached to a wooden box and a total of 35 pins are to be used on the each side of the cardboard.Find the total number of pins used .

3.During a Pizza buffet where A eats more times 2.4 than B, and B eats 6 times less than C.find the least number of times all the three has to eat.

4.Last Year my cousin came to my place and we played a game where the losing one has to give one chocolate to the person who won the game .At the end of the vacation,i.e the day my cousin was leaving she counted number of games that i won and she won.At last she gave me a total of 8 chocolates even though she won about 12 games.Find the number of games that we played.

5. Amir,shahrukh,sunil and salman were quarrelling among them saying each one's daughter madhuri,rani,junhi.manisha is more beautiful than other .so they decide to have a poll. each one has 5 votes to be distributed among the 4 and highest vote that can be given is 3 and the votes are different from rest(if salman gives votes like 2,2,1,0 ,this cant repeat with others).

The other restrictions are :

salman decided that it will be prudent to share equal marks between all the friends daughters.

sunil gives Highest vote to his daughter rani.

amir gives equal marks to Manisha and juhi.

shahrukh doesn't give any marks to his daughter as he thinks his daughter is haughty enough for other to vote .

Give the votes polled by others to Madhuri.

27th April 2003

1.If 7 cats can catch 7 rats 7 ways in 7days,then 10cats can catch 10rats 10ways in how many days?

2. S E N D

MORE

MONEY

3. Find the total number of rectangles (include squares also as rectangles) in a 8 * 8 standard chessboard?

4.Find the minimum no of tyres required for a standard old modeled four-wheeled car to travel 48000miles,if 24000miles per each tyre?

5. Mr. Sekhar and Ms. Sekhar are having conversation like this:

Mr. Sekhar said to Ms. Sekhar: "Give me three quarters of what you have , i will add it with what i have, totally to buy a house at indiranagar for 5000/-,remaining at hand with you can be bought the running stream and groove".

Ms.Sekhar, said ,"No, No, give me two thirds of what you have , i will add it with what i have ,totally we can buy the house ,and the groove and running stream we can buy with the remaining money we have".
can you find the money required to buy the groove and stream?

6.EXACTLY LIKE THIS QUESTION WITH NAMES CHANGED (Practise this question)

- (1) Ashland is north of East Liverpool and west of Coshocton
- (2) Bowling Green is north of Ashland and west of Fredericktown
- (3) Dover is south and east of Ashland
- (4) East Liverpool is north of Fredricktown and east of Dover
- (5) Fredricktown is north of Dover and west of Ashland
- (6) Coshocton is south of Fredricktown and west of Dover

1)Which of the towns mentioned is furthest to the northwest ?

- (a) Ashland
- (b) Bowling Green
- (c) Coshocton
- (d) East Liverpool
- (e) Fredericktown

2). Which of the following must be both north and east of Fredricktown?

- (I) Ashland
- (II) Coshocton
- (III) East Liverpool

- (a) I only
- (b) II only
- (c) III only
- (d) I and II
- (e) I and III

3. Which of the following towns must be situated both south and west of at least one other town?

- (a) Ashland only
- (b) Ashland and Fredricktown
- (c) Dover and Fredricktown
- (d) Dover,Coshocton and Fredricktown
- (e) Dover,Coshocton and East Liverpool

4. Which of the following statements, if true, would make the information in the numbered statements more specific?

- (a) Coshocton is north of Dover

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- (b) East Liverpool is north of Dover
- (c) Ashland is east of Bowling Green
- (d) Coshocton is east of Fredericktown
- (e) Bowling Green is north of Fredericktown

7. Two weather reporting resources DD-I and BBC gave a report for the rain coming in Bangalore city. The guarantee of rain not to come given by DD-I is $\frac{2}{3}$, while the guarantee of rain to fall given by BBC is $\frac{3}{4}$. The chance of rain to fall is more. If rain falls, what is the guarantee to fall. (Values not exactly)

More Previous Questions...

1. There is an escalator and 2 persons move down it. 'A' takes 50 steps and 'B' takes 75 steps while the escalator is moving down. Given that the time taken by A to take 1 step is equal to time taken by B to take 3 steps. Find the no of steps in the escalator while it is stationary.

Ans:

You will agree that the escalator keeps on moving in one direction. Even if you do not take any steps down you will come down.

In our problem both A and B also move down when the escalator is in motion.

When A takes one step B takes 3 steps. Therefore when B has taken 75 Steps A would have taken 25 Steps down. B by that time B would have reached down and will not have any more steps to come down. Now The difference between A and the ground is $75 - 25$ steps = 50 steps.

As per the problems A takes 50 steps to come down. It implies A will take 25 more steps to reach down. that is 50 steps - 25 steps already taken along with B.

So when A climbs down 25 steps the escalator would have also moved 25 steps.

So when A takes 25 steps escalator moves 25 steps.

Therefore the escalator would have moved 50 steps when A has climbed down 50 steps.

The total steps in the escalator is $50 + 50 = 100$ steps.

2. If $\frac{5}{2}$ artists make $\frac{5}{2}$ paintings using $\frac{5}{2}$ canvases in $\frac{5}{2}$ days then how many artists are required to make 25 paintings using 25 canvases in 25 days?

Ans:

more paintings : more artist (Direct)

more canvases: more artist (Direct)

more days : Less artist (Indirect)

$2.5 : 25$

$2.5 : 25 :: 2.5 : x$

$25 : 2.5$

$$2.5 * 2.5 * 25 * x = 25 * 25 * 2.5 * 2.5$$

$$x = 25 * 25 * 2.5 * 2.5 / 2.5 * 2.5 * 25$$

X=25 days.

3. If the digits of my present age are reversed then I get the age of my son. If 1 year ago my age was twice as that of my son. Find my present age. Ans. father-73, son-37

4. There are 6561 balls out of them 1 is heavy. Find the min. no. of times the balls have to be weighed for finding out the heavy ball.

ans. 8

Soln. $6561/3=2187$ (2187,2187,2187) --> Weight 1 time

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$2187/3=729$ (729,729,729) ---> Weight 1 time
 $729/3=243$ (243,243,243) ----> Weight 1 time
 $243/3=81$ (81,81,81) ----> Weight 1 time
 $81/3=27$ (27,27,27) ----> Weight 1 time
 $27/3=9$ (9,9,9) ----> Weight 1 time
 $9/3=3$ (3,3,3) -----> Weight 1 time
 $3/3=1$ (1,1,1) -----> Weight 1 time

5. If i walk with 30 miles/hr i reach 1 hour before and if i walk with 20 miles/hr i reach 1 hour late. Find the distance between 2 points and the exact time of reaching destination is 11 am then find the speed with which it walks. Ans. 120miles and 24 miles/hr

Soln:

Let the distance to be covered be x.

Difference in time travelling at 2 speeds = 2 hrs

$$x / 20 - x / 30 = 2$$

$$(3x - 2x)/60 = 2$$

$$x = 120 \text{ miles.}$$

Distance to be covered is 120 miles.

Exact destination time ----> 11.00 am

at 30 mphr (1 hr earlier) time taken ----> 4 hrs

time ----> 10.00 am

at 20 mphr (1 hr latter) time taken ----> 6 hrs

time ----> 12.00 pm

starting time is 6.00 am

to be exact at 11.00 am time duration is 5 hrs

Speed required to reach at 11.00 am --> $120/5 = 24 \text{ m/hr.}$

6. Find the 3 digit number. Third digit is square root of first digit. Second digit is sum of first and third digits. Find the number ?

Ans: 462

7. i participated in a race. $1/5$ th of those who are before me are equal to $5/6$ th of those behind me. what were the total number of contestants in the race?

Ans: 32

Soln:

Let x be behind me & Let y be before me.

$$\frac{5}{6}x = \frac{1}{5}y$$

$$\frac{5}{6}x - \frac{1}{5}y = 0$$

$$25x - 6y = 0$$

$$25x = 6y \text{ if } x=6 \text{ \& } y=25$$

Ans:

$$31 + 1 = 32$$

8. A girl has 55 marbles. she arranges them in n rows. the nth row consists of n marbles, the n-1th row consists of n-1 marbles and so on. what are the number of marbles in nth row? Ans: 10.

9) Alice and Liu had some berries. The total of Alice's berries and square of number of berries with Liu is 62. The total of Liu's berries and square of number of berries with Alice is 176. How many berries does each of them have? (6 marks)

Ans:

let x be the number of berries with Alice

let y be the number of berries with Liu

Then,

$$x + y^2 = 62$$

$$x^2 + y = 176$$

$$x=7 \text{ } y=13$$

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10. Complete the sequence.

a) 10 1 9 2 8 3 7 4 6 5 5 6 4 7 3 8 2 _ _

Ans : 9 1 (Alternative series)

b) 1,2,3,5,16,_____

Ans: b) 79 ($16 * 5 - 1$)

c) 1,2,3,8,_____,224

Ans: c) 27 ($8 * 3 + 3$)

d) 5, 20, 24, 6, 2, 8, ?

Ans: 12 (as $5*4=20$, $20+4=24$, $24/4=6$, $6-4=2$, $2*4=8$, $8+4=12$).

17) A Man is sitting in the last coach of train could not find a seat, so he starts walking to the front coach ,he walks for 5 min and reaches front coach. Not finding a seat he walks back to last coach and when he reaches there, train had completed 5 miles. what is the speed of the train.

Ans: 30 m/h

18) The Old car of Mary requires tyres to be changed after each 24000 km. If she wants to go for 42000 km journey then how many minimum number of tyres she will need.

Ans: 7 tyres.(not sure)

19) A pen, pencil and eraser together cost \$1.00. if $2E < N$, if $N > 2P$, and $3P > 4E$ then what a single pen will cost?

Ans: E->Eraser; P->Pencil; N->Pen ----- Pen Will cost \$0.6

20) Sherlock holmes thrwated the plan to kidnapp Mrs mary when they were questioned Mercy and his two associated shipy and rany.when they were telling the story one of them told one thing wrong and other true, the other told both true, and the last told both false. examining the following tell the roles played by each

Mercy:: 1) i wrote the ransome note (True)

2) shipy broke into the window (True)

Rany 1) shipy wrote the ransome note (False)

2) mercy ran away with the lady (False)

shipy 1) i broke into the window (True)

2) rany wrote the ransome note. (False)

21. A person needs 6 steps to cover a distance of one slab. if he increases his foot length(step length) by 3 inches he needs only 5 steps to cover the slabs length. What is the length of the each slab?

Ans: 90 inches.

Soln:

Let x be his initial foot lenght.

so distance covered by him is 6x.

If he increases the foot lenght by 3 inches his foot length is (x+3)

So distance covered by him is 5(x+3)

so, $6x = 5(x+3)$

$6x - 5x = 15$

$x = 15$.

Lenght of the slab is either 6x or $5(x+3) = 90$ inches.

22. There is one lily in the pond on 1st june. There are two in the pond on 2nd june . There are four on 3rd june and so on. The pond is full with lilies by the end of the june.On which date the pond is half full? Ans. 29th. (june has 30 days)

23. A lorry starts from Banglore to Mysore at 6.00 A.M,7.00am , 8.00am10 pm. Similarly one

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another starts from Mysore to Banglore at 6.00 , 7.00 am, 8.00 am.....10.00pm. A lorry takes 9 hours to travel from Banglore to Mysore and vice versa.

(i) A lorry which has started at 6.00 am will cross how many lorries.

ans. 10

(ii) A lorry which had started at 6.00pm will cross how many lorries.

ans. 14

24. . A thief steals half the total no of loaves of bread plus $\frac{1}{2}$ loaf from a bakery. A second thief steals half the remaining no of loaves plus $\frac{1}{2}$ loaf and so on. After the 5th thief has stolen there are no more loaves left in the bakery. What was the total no of loaves did the bakery have at the beginning ?

Ans: 31

25. From a vessel, $\frac{1}{3}$ rd of the liquid evaporates on the first day. On the second day $\frac{3}{4}$ th of the remaining liquid evaporates. What fraction of the volume is present at the end of the second day.

Ans: 50% ($\frac{1}{2}$).

26. An orange glass has orange juice and white glass has apple juice both of equal volumes. 50ml of the orange juice is taken and poured into the apple juice. 50ml from the white glass is poured into the orange glass. Of the two quantities, the amount of apple juice in the orange glass and the amount of orange juice in the white glass, which one is greater and by how much?

Ans: The two quantities are equal

27. There is a 4 inch cube painted on all sides. This is cut down into of 1 inch cubes. What is the no of cubes which have no painted sides.

Ans: 8.

28. Sam and Mala have a conversation. Sam says I am certainly not over 40 . Mala says I am 38 and you are atleast 5 years older than me Now Sam says you are atleast 39 All the statements by the two are false. How old are they really?

Ans: Mala = 37 yrs; Sam = 41 yrs.

29. Ram Singh goes to his office in the city, every day from his suburban house. His driver Gangaram 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. Gangaram 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 walk?

Ans: 45 minutes (not sure).

30. In a railway station, there are two trains going. One in the harbour line and one in the main line, each having a frequency of 10 minutes. The main line service starts at 5 o'clock and the harbour line starts at 5.02A.M. A man goes to the station every day to catch the first train that comes. What is the probability of the man catching the first train? Ans: 0.8 .

31. A family X went for a vacation. Unfortunately it rained for 13 days when they were there. But whenever it rained in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and 12 afternoons. How many days did they stay there totally?

Ans: 18 days.

Soln: 13 days rained so they got 7 afternoons & 6 mornings

Total they enjoyed 12 afternoons & 11 mornings

For that they require 5 more days

So total no. of days= 13 + 5 = 18 days.

32. Each alphabet stands for one digit in the following multiplication.

T H I S

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X I S

X F X X

X X U X

X X N X X

----- What is the maximum value T can take?

Ans: T max value = 4 .

33. If $\frac{1}{4}$ of the time from midnight plus $\frac{1}{2}$ of the time from now to midnight is the present time, then what is the present time ?

Ans: 9 hours 36 minutes

Soln: Let x be the present time.

so, $\frac{x}{4} + \frac{(24 - x)}{2} = x$

$x + 48 - 2x = 4x$

$5x = 48$

$x = \frac{48}{5}$

$x = 9.6 \sim 9$ hrs 36 minutes (Check it out)

34) A cube is painted with red color in all sides. It was cut into 27 small cubes. Then how many

a. 3 side red faces? (2marks)

b. 2 side red faces? (2marks)

c. 1 side red faces? (2marks)

d. no painted faces? (2marks)

Ans:

a. 3 side red faces = 8

b. 2 side red faces = 12

c. 1 side red faces = 6

d. no painted faces = 1

36. Replace each letter by a digit. Each letter must be represented by the same digit and no beginning letter of a word can be 0.

O N E

O N E

O N E

O N E

T E N

Ans: O = 1, N = 8, E = 2, T = 7

37. 2. Ann, Boobie, Cathy and Dave are at their monthly business meeting. Their occupations are author, biologist, chemist and doctor, but not necessarily in that order. Dave just told the biologist that Cathy was on her way with doughnuts. Ann is sitting across from the doctor and next to the chemist. The doctor was thinking that Boobie was a goofy name for parent's to choose, but didn't say anything. What is each person's occupation?

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Ans: Since Dave spoke to the biologist and Ann sat next to the chemist and across the doctor, Cathy must be the author and Ann the biologist. The doctor didn't speak, but David did, so Bobbie is the doctor and Dave the chemist.

38. Sometime after 10:00 PM a murder took place. A witness claimed that the clock must have stopped at the time of the shooting. It was later found that the position of both the hands were the same but their positions had interchanged. Tell the time of the shooting (both actual and claimed).

Ans: Time of shooting = 11:54 PM

Claimed Time = 10:59 PM

39. Next number in the series is 1, 2, 4, 13, 31, 112, ?

Ans: 224.

Soln:

No number has digits more than 4. All of them are 1, 2, 4, 8, 16, 32, 64 converted to numbers in base 5

40. Supposing a clock takes 7 seconds to strike 7. How long will it take to strike 10?

Ans: 10 1/2 seconds.

Soln: At 7'o clock it takes 7 seconds.

so for 6 strikes it takes 7 seconds (the first strike is ignored b'coz starting indicated by first strike)

6 strike = 7 seconds

1 strike = 7/6 sec

so at 10 'o clock there are 9 strikes

so it will take

$7/6 * 9 = 63/6 = 10.5$ seconds

41. I bought a car with a peculiar 5 digit numbered licence plate which on reversing could still be read. On reversing value is increased by 78633. What's the original number if all digits were different?

Ans: 10968

Soln: Only 0 1 6 8 and 9 can be read upside down. So on rearranging these digits we get the answer as 10968

42. Shahrukh speaks truth only in the morning and lies in the afternoon, whereas Salman speaks truth only in the afternoon. A says that B is Shahrukh. Is it morning or afternoon and who is A - Shahrukh or Salman.

Ans: Afternoon ; A is Salman

43. Two trains starting at same time, one from Bangalore to Mysore and other in opposite direction arrive at their destination 1 hr and 4 hours respectively after passing each other. How much faster is one train from other?

Ans: Twice

44. There are 6 volumes of books on a rack kept in order (ie vol.1, vol. 2 and so on). Give the position after the following changes were noticed. All books have been changed Vol.5 was directly to the right of Vol.2 Vol.4 has Vol.6 to its left and both weren't at Vol.3's place. Vol.1 has Vol.3 on right and Vol.5 on left. An even numbered volume is at Vol.5's place Find the order in which the books are kept now.

Ans: 2, 5, 1, 3, 6, 4

45.) There is a safe with a 5 digit No. The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit. The 1st digit is thrice the last digit. There are 3 pairs whose sum is 11. Find the number.

Ans) 65292 or 29256

46. Venkat has 1 boy & 2 daughters. The product of these children's age is 72. The sum of their ages give

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the door number of Venkat. Boy is elder of three. Can you tell the ages of all the three.

Ans: 6, 4, 3

47. There is a robbery and four persons are suspected out of them one is actual thief, these are the sentences said by each one of them!

A says D had done

B says A had done

C says I didn't do

D says B lied when he said that I am thief

Out of these only one man is true remaining are false

Ans: C is thief, D is true

48. How many four digit numbers divisible by four can be formed using 1,2,3,4; repetitions are not allowed! Ans: 6

Soln: Number to be divisible by 4 means the last two digits must be divisible by 4. So the numbers are 4312, 3412, 1324, 3124, 1432, 4132.

49. Two employees were there. Employee one says to employee two your work experience is twice as mine. Employee two says I am exactly employee one but two years before you said that your work experience is thrice as mine. Employee two is also true. What are their work experiences?

Ans: 4, 8

50. In the month of October in a year has exactly four Mondays and four Fridays, find what day of the week will be on the 20th of November of that year.

Ans: 20th November was a Wednesday.

51. T, U, V are 3 friends digging groups in fields. If T & U can complete a groove in 4 days, U & V can complete 1 groove in 3 days, V & T can complete in 2 days. Find how many days each takes to complete 1 groove individually.

Ans: T requires 24 days

Soln: (T & U)'s 1 day work = $\frac{1}{4}$;

(U & V)'s 1 day work = $\frac{1}{3}$;

(V & T)'s 1 day work = $\frac{1}{2}$;

Adding we get,

$$2(T + U + V) = \left(\frac{1}{4} + \frac{1}{3} + \frac{1}{2}\right)$$

$$= \frac{13}{12}$$

$$(T + U + V)'s \text{ 1 day work} = \frac{13}{24}$$

$$U's \text{ 1 day work} = (T + U + V) - (T + V)$$

$$= \frac{13}{24} - \frac{1}{2} = \frac{(13 - 12)}{24} = \frac{1}{24}$$

So T will take 24 days to complete the work

///ly find others also

52. 4 mathematicians have x apples. If he arranges them in rows of 3 one will be left. The same is the case with 5, 7, 9 apples. But when he arranged them in rows of 11 none will be left. Find the no. of apples

Ans: 946

53. A boy picks up the phone and asks "who are you?" The voice from the other side answers "I am your mother's mother-in-law". What is the relation of the boy with the fellow speaking at the other end.

Ans: Grand Mother

54. 2 persons are doing part time job in a company say A and B. The company is open for all the 7 days of the week. 'A' works every second day. 'B' works every 3rd day. If 'A' works on 1st June and 'B'

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works on 2nd june. Find out the date on which both 'A' and 'B' will work together.

Ans: 5th June.

55. Consider a pile of Diamonds on a table. A thief enters and steals $\frac{1}{2}$ of the total quantity and then again 2 extra from the remaining. After some time a second thief enters and steals $\frac{1}{2}$ of the remaining+2. Then 3rd thief enters and steals $\frac{1}{2}$ of the remaining+2. Then 4th thief enters and steals $\frac{1}{2}$ of the remaining+2. When the 5th one enters he finds 1 diamond on the table. Find out the total no. of diamonds originally on the table before the 1st thief entered.

Ans: 76

56. Imagine 4 persons A,B,C,D. (It is a strength determining game). A found it hard, but could pull 'c' and 'd' to his side. AC and BD pairs on opposite sides found themselves equally balanced. When A and B exchanged their positions to form pairs AD and BC, BC pair could win and pull AD to their side. Order the 4 persons in Ascending order according to their strengths.

Ans: $D < C < A < B$.

57. Find a five digit number subject to following conditions

a. It contains 2 prime no digits

b. 3rd digit is the largest

c. 1st digit = (3rd digit - 1)

d. sum of 4th digit and 5th digit is less than 1st digit and

e. Value of the 5th digit lies between the value of 1st digit and 2nd digit, 5th digit is one half of the 4th digit.

Ans: 71842.

58. A merchant in the last day sells 2 lamps for Rs.12 each. He finds that he has got 25 % gain on one and 20% lost on the other. Did he lose or gain overall? If so how much?

Ans: 60 paise LOSS.

Soln: Selling price of both the lamp is 12 each.

Cost price of 1st lamp on which he gain 25% is

$$100/125 * 12 = 9.6$$

$$\text{so gain is} = 12 - 9.6 = \text{Rs. } 2.4$$

Cost price of 2nd lamp on which he loss 20% is

$$100/80 * 12 = 15$$

$$\text{so loss is} = 15 - 12 = \text{Rs. } 3$$

So Total loss is 60 paise.

59. 4 persons are there called JOHN, JACOB, PETER, and WILLIAMS 4 languages are there named ENGLISH, ITALIAN, GERMAN, FRENCH

CONDITIONS:

a. There is no common language for all

b. Except one language, no language is spoken by more than two

c. One can know either German or FRENCH but not both

d. John can't speak ENGLISH But John can act as interpreter between JACOB and PETER. Jacob knows GERMAN but he can talk with WILLIAM who doesn't know a word of GERMAN

e. No common language between JOHN, PETER, and WILLIAMS

Which two languages does each person speak? (8 marks)

hint: ITALIAN IS SPOKEN BY THREE PERSONS(This hint is given in Question paper)

Ans: John -----> Italian French

Jacob -----> German Italian

Peter -----> French English

William ---> Italian English

60. There were three suspects for a robbery that happened in a bank, Tommy, Joy and Bruce. Each of them were saying that I haven't done anything and the other two have done it. Police found that Tommy

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was lying .who is the thief.

Ans: Tommy

61. Three clocks were set to true time .First run with the exact time .second slows one minute/day. third gains one minute/day. after how many days they will show true time.

Ans: After 720 days(not sure)

62. there were few diamonds.

1st thief takes half of the diamonds +2

2nd thief takes half of the diamonds +2

3rd thief takes half of the diamonds +2

4th thief takes half of the diamonds +2

when 5th thief arrives there were no diamonds. find the total no. of diamonds.

Ans: 60.

63. x,y,z are different digits.find them using the following addition

x y z

x z y

z y x

Ans: x=4, y=5, z=9;

64. $x^{1/3} - x^{1/9} = 60$ note: ** is power of symbol find x?

Ans: 4^9 . or 64^6 both ans are same.

65. one person chooses a number between 1 - 1000 including 1 and 1000. Then other person chooses a number from same limit. then what is the probability that other person chooses the number less than first one.

Ans: $999/2000 = 0.4995$

66. 51 teams are there and they are to play basketball matches. A team is out of the tournament if that loses 2 games. what is the maximum number of games to be played to decide one winner.

Ans: 101 matches

67. Two persons A and B met. A told B " myself and my 3 cousins have ages which are prime numbers and sum of our ages is 50. If you know my age then you can tell their ages. what are the ages of cousins?"

Ans: a) 3,2,2 and myself is 43

b) 13 , 5 , 3 & 29

c) 3,5,5 & 37 etc.

68. Both the guptas and sinhas have two young sons whose ages are under eleven. The names of the boys, whose ages rounded off to the nearest year are all different, are rajesh, praveen, lalith and prathap. taking the ages of the boys only to the nearest year, the following statements are true

1) rajesh is 3 years younger than his brother is

2) praveen is the oldest

3) prathap is 5 years older than the younger sinhas boy.

4) lalith is half as old as one of the gupta boys.

5) the total ages of the boys in each family differ by the same amount today as they did five years ago.

Ans: Gupta Sinha

Pratap=10 Praveen=11

Rajesh=7 Lalit=5

69. Mr. x (got paramvir chakra in 1971) died when his age was 1/59th the year of birth.what was his date of birth?

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Ans: 1947

Soln: $59 * 33 = 1947$ ($59 * 32 = 1888$ or $59 * 34 = 2006$)

70. A & B two places. C & D are two people. c started from a and d started from b. when they meet each other in the way c traveled 18m more than d. than c takes 13 and half a minute and d takes 24 minutes to reach the other end. what was the distance between a & b.

Ans : 126

71. the profit made by a company in one year is enough to give 6% return on all shares. but as the preferred shares get on return of 7.5%, so the ordinary shares got on return of 5%. if the value of preferred shares is rs-4,000000, then what is the value of ordinary shares?

Ans: 6,000000.

72. There is a 18 strong building and 4 people live in it. they are dentist, lawyer, accountant, architect. (i am giving only a part of the question)

--dentist floor is 5 times the lawyer' floor.

--account is below dentist.

--if architect moves two floors up he will be midway between dentist and account.

---if architect moves to midway of the building (9th floor) then he will be middle of dentist & lawyer.

---ground floor can be ignored i.e. floor 0.

Ans: dentist 15.

accountant 13.

architect--12.

lawyer-- 3.

73. what are the number of zero's after multiplying numbers from 1 to 100.

Ans : 24.

77. A person Buy some clothes from wholesale at some discount and think when will he sale it at retail price he get 40% profit. But some how after selling whole clothes he feel that he get 39% lose. After searching the reason he came to know his Weight metter (clothe meter) is not proper .Can you tell we How much meter weight and is it more or less from normal.

Ans: Meter major .975 extra in per meter (100.975 C.M weight in one time)

78. Two boys A and B work as a part time in a shop A works every after 2 days while B Works every after 3 days, A start working at 1 June Thursday while B start working at 2 June Wednesday Can you tell in which date of month they work together.

Ans: 10 June Thursday they work together [after 2 days from 1 June means next at 4 June not in 3 June similarly for other]

79. A car is travelling at uniform speed. The driver sees a milestone showing a digit number ,after travelling for an hour the driver sees another milestone with the same digits in reverse order after another hour the driver sees another milestone containg the same two digits what is the average speed of the driver.

Ans: 45 Kmph (16 , 61 , 106)

80. Jonty went for movie with his family but at ticket window a lot of rush present so he was getting upset, then his father told him I am giving you a puzzle for you ,so that your time pass properly, he was agree then his father told him here lines of people at every after third man there was a kid ,but number of man and women is three times to the number of kids , Total people value lies between 800 to 1000. Can you tell me number of kids and number of adult.

Ans: 300 kids and 600 adult (Check it Out)

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82. During a party 12 guests were there and each clinked his glasses with the other. How many clinks were heard totally?

Ans: 55

84. Man A lies on Monday, Tuesday and Wednesday. Man B lies on Thursday, Friday and Saturday. On one particular day A said "Yesterday I lied". Then B said "Yesterday I lied too". On which day were these statements made?

Ans: Thursday

87. Find the values of each of the alphabets.

NOON

SOON

+ MOON

JUNE

Ans: 9326

88. There are 20 poles with a constant distance between each pole. A car takes 24 seconds to reach the 12th pole. How much will it take to reach the last pole.

Ans: 41.45 seconds

Let the distance between two poles = x

Hence $11x:24::19x:?$

89. The minute and the hour hand of a watch meet every 65 minutes. How much does the watch lose or gain time and by how much?

Ans: Gains; 5/11 minutes

90. Ram, Shyam and Gumnaam are friends. Ram is a widower and lives alone and his sister takes care of him. Shyam is a bachelor and his niece cooks his food and looks after his house. Gumnaam is married to Gita and lives in a large house in the same town. Gita gives the idea that all of them could stay together in the house and share monthly expenses equally. During their first month of living together, each person contributed Rs. 25. At the end of the month, it was found that Rs. 92 was the expense so the remaining amount was distributed equally among everyone. The distribution was such that everyone received a whole number of Rupees. How much did each person receive?

Ans: Rs. 2 (Hint: Ram's sister, Shyam's niece and Gumnaam's wife are the same person).

91. At 6 o'clock a clock ticks 6 times. The time between the first and last ticks is 30 seconds. How long does it tick at 12 o'clock.

Ans: 66 sec.

92. Three friends divided some bullets equally. After all of them shot 4 bullets, the total number of bullets remaining is equal to the bullets each had after division. Find the original number divided.

Ans: 18

Soln: Initially . x x x

Now x-4 x-4 x-4

Equation is $3x-12 = x$

93. A ship went on a voyage. After it had travelled 180 miles, a plane started with 10 times the speed of the ship. Find the distance when they meet from the starting point.

Ans: 200 miles.

Soln: Distance travelled by plane = 1/10 distance travelled by ship + 180

94. There are 3 societies A, B, C. A lent cars to B and C as many as they had already. After some time B gave as many tractors to A and C as many as they have. After some time C did the same thing. At the end of this transaction each one of them had 24. Find the cars each originally had.

Ans: A had 39 cars, B had 21 cars & C had 12 cars

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95. There N stations on a railroad. After adding X stations on the rail route 46 additional tickets have to be printed. Find N and X.

Ans. $x=2$ and $N=11$

Soln: Let initially, $N(N-1) = t$

After adding, $(N+X)(N+X-1) = t+46$

By trail and error method

96. Given that April 1 is tuesday. A, B, C are 3 persons told that their farewell party was on

A - May 8, thursday

B - May 10, tuesday

C - June 5, friday

Out of A, B, C only one made a completely true statement concerning date, day and month. The other told two one told the day right and the other the date right. What is correct date, month, day.

Ans: B - (May 10) SUNDAY

C - June 6 (Friday).

97. The Bulls, Pacers, Lakers and Jazz ran for a contest. Anup, Sujit, John made the following statements regarding results.

Anup said either Bulls or Jazz will definitely win

Sujit said he is confident that Bulls will not win

John said he is confident that neither Jazz nor Lakers will win

When the result came it was found that only one of the above three had made a correct statement. Who has made the correct statement and who has won the contest.

Ans: Sujith; Lakers

98. Fifty minutes ago if it was four times as many minutes past three o'clock, how many minutes is it to six o'clock?

Ans: Twenty six minute

99. Everyday in his business a merchant had to weigh amounts from 1 kg to 121 kgs, to the nearest kg. What are the minimum number of weight required and how heavy should they be?

Ans: . The minimum number is 5 and they should weigh 1,3,9,27 and 81 kgs.

100. Mr. Mathurs jewels have been stolen from his bank locker. The bank has lockers of 12 people which are arranged in an array of 3 rows and 4 columns like:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

The locker belonging to JONES was to the right of BLACK'S locker and directly above MILLAR'S.

BOOTH'S locker was directly above MILLAR'S.

SMITH'S locker was also above GRAY's (though not directly).

GREEN'S locker was directly below SMITH'S.

WILSON'S locker was between that of DAVIS and BOOTH.

MILLAR'S locker was on the bottom row directly to the right of HERD'S.

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WHITE'S locker was on the bottom right hand corner in the same column as BOOTH'S.

Which box belonged to Mr.Mathurs?

Ans: Box number 9 belongs to Mr.Mathurs.

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1. Mrs. Jones, Mrs. Davis and Mrs. Smith are Friends. Their first names are Mary, Helen and Dorothy though not in order. All three of them go on shopping, where Marry spends twice of what Helen spent and Helen spends thrice of what Dorothy Spends. Mrs. Davis spends 3.85 more than Mrs. Smith. Identify the Families of these three women.

2. A cube of size 10 units, painted black, is cut into 1000 pieces of 1 unit size. How many of the cubes are painted (At least on one side)

3. A Person gets his old book binded. But he finds that the page numbers are cut off. So he starts numbering the pages. During the process he finds that 3 is encountered 61 times. Can u tell how many pages were there in the book?

4. A child questions his father, "What is your father's age", to which the father answers "He was aged X in year X²". If the context is 20th Century, What is his Date of Birth?

5. A Clock loses exactly 24 minutes per hour. The Clock is now showing 3.00 A.M. If the clock was corrected a midnight and it stooped 1 hour ago, What is the correct time now? 6. A boy will cycle his way to his grandfather's house. On the first day he cycles 1/2 of the distance. On the second day he cycles 1/2 of he remaining distance. On the third day he cycles three quarter of the remaining. On the fourth day he cycles 10 miles. On the fourth day he cycles 3/4 of the remaining distance and on the final day he cycles the remaining 5 miles. What is total distance he traveled?

7. A rich man wanted to distribute his collection of gold coins among his ten children comprising of 5 sons and 5 daughters. He also wanted to give some coins to his car driver. He proceeds on the following basis. The first coin went to the car driver and then 1/5th of the remaining coins to his first son. He then gave another coin to the car driver and distributed 1/5th of the remaining coins to his second son. This procedure went on till all the five sons received their share. Once all the sons received their shares, he distributed the remaining coins equally among his daughters. Can u find how many gold coins the rich man had?

8. Ava, Fanny, Eartha, Cynthia, Isabelle and Rick, Smith, Vic, Steve, Willy are 5 Couples though not in order. Each were married on the different day of the week from Monday to Friday. Ava was married on Monday but not to Willy Steve was married on Thursday and Rick on Friday (but not to Isabelle) Fanny married Vic on the day after Eartha was married. Identify the Couples.

1. In a tournament there are 20 flagpoles, equidistant from each other. Each runner starts from the first flag. In 24 seconds a runner reaches the 12th flag. How much will it take for him to complete the 20 flags?

2. TROT
+ TROT
=====

ROOM
Find T, R, O, M

Ans: T=2, R=5, O=0, M=4.

3. In a party each man pairs with 3 women and each woman pairs with 3 men. Each pair of men had

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two common partners. How many people were there in the party?

Ans: 8.

4. When I reach my father's age I will be 5 times that of my son's age. By that time my son's age will be 8 times my present age. If my father's age and my age add up to 100, then what is my son's age.

Ans : 13.

5. Speculate between A, B, C, and D about awards

A says D won in Logic

B says D won in French

C says B did not win in Mathematics

D says C won in English

When the result came out, it was found that the speculations by the logician and the mathematician were true while the other two false, who won which award?

6. A person is crossing a bridge over a railway track. When he is $\frac{7}{16}$ th of the bridge, he hears the whistle of a train from behind. He dashes forward at a speed of 10 miles per hour and managed cross the bridge just in time. If he had gone the other way he would have escaped just in time too from being run over. What is the speed of the train?

7. There are two families Guptas & Sinhas. Each have two children. All children are below 11 years of age. The children who have different ages to the nearest year are Praveen, Pratap, Ragesh, Lalit.

* Praveen is oldest.

* Rajesh is three year younger than his brother is.

* Pratap is five years elder to the younger of the Sinhas.

* Lalit is half the age of one of the Guptas.

* The difference between the sum of the ages of each family is the same as it was five years ago.

Find the ages of the boys and to which family each belongs.

8. There is a horse race between four horses A, B,C, D. B comes first. A is not last. C's colour is red. Third horse is not blue. B finished just before the green horse. B finishes before A. B is not yellow. Give the horse names in order of finishing and their respective colours.

9. Model test 2 (Barron's GRE guide)

Page=487, Section 6 (8-12).

10. In a game there are four teams: Speakit, Doit, Thinkit, Actit. There are 3 people who gave following statements. Among them only one was right. Then find which team wins.

A: I think either Thinkit or Doit will win.

B: I think Doit has no chance of winning.

C: Neither Thinkit nor Actit has any chance to win.

1)

A,B,C,D and E are related. Four of them made these statements, one each.

C is my son in law's brother

B is my father's brother

E is my mother in law

A is my brother's wife

Who made these statements(A/B/C/D/E)?

10 marks

2)

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e means belong.

All members of E e D

All members of D e A

Not all members of D e E

Not all members of A e D

All members of C e both A and B

Some questions are asked about relations. Use Venn diagram

5 marks

3)

A,B,C are 3 hockey teams. Complete the table.

Played	Won	Lost	Drawn	Goals For	Goals Against
A	2	2			1
B	2		1	2	4
C	2			3	7

4 marks

4)

A says Party was held on :Thursday ,May 8th.

B says Party was held on :Tuesday,May 10th.

C says party was held on :Friday ,June 8th.

Given April 1 st was Tuesday.

One of A,B,C says 1 correct, One says 1 wrong and One was completely wrong of Date,Month and Day.

Find the Day the party was held.

5 marks

5)

A ship is away from the shore by 180 miles.

A plane is travelling at 10 times speed of the ship.

How long from the shore will they meet?

2marks

6)

Every station in a railroad network issues every other station's ticket.

Some stations are added. Now they have to issue 46 more tickets.

Give the no.of stations before and after the stations are added.

5 marks

7)

Three persons say these statements.

A says either Democratic or Liberal wins the elections.

B says Democratic wins.

C says neither Democratic nor Liberal wins the election.

Of these only one is wrong.

Who wins the election?

5 marks

8)

A clock showing 6 o'clock takes 30 secs to strike 6 times.

How long will it take to strike 12 at midnight?

Ans.66 secs.

2marks

9)

Only boys aged > 16 wear coats.

Boys aged > 15 go to watch football.

Some more statements are given.

What can be said about those who are watching football ? (age and costume)

5 marks

10)

There are 3 societies A,B,C having some tractors each.

A gives B and C as many tractors as they already have.

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After some days B gives A and C as many tractors as they have.

After some days C gives A and B as many tractors as they have.

Finally each has 24 tractors.

What is the original no. of tractors each had in the beginning?

Ans. A - 39, B - 21, C - 12.

1)

A beggar collects cigarette stubs and makes one full cigarette with every 7 stubs. Once he gets 49 stubs.

How many cigarettes can he smoke totally.

Ans: 8

2)

A soldier loses his way in a thick jungle. At random he walks from his camp but mathematically in an interesting fashion. First he walks one mile East then half mile to North. Then $\frac{1}{4}$ mile to West, then $\frac{1}{8}$ mile to South and so on making a loop.

Finally how far he is from his camp and in which direction.

Ans: in north and south directions

$\frac{1}{2} - \frac{1}{8} + \frac{1}{32} - \frac{1}{128} + \frac{1}{512} -$ and so on

$= \frac{1}{2} / ((1 - (-1/4)))$

similarly in east and west directions

$1 - \frac{1}{4} + \frac{1}{16} - \frac{1}{64} + \frac{1}{256} -$ and so on

$= 1 / ((1 - (-1/4)))$

Add both the answers

3)

How 1000000000 can be written as a product of two factors neither of them containing zeros

Ans: $2^9 \times 5^9$

4)

Conversation between two mathematicians:

First: I have three children. The product of their ages is 36. If you sum their ages, it is exactly same as my neighbour's

door number on my left. The second mathematician verifies the door number and says that it is not sufficient. Then the first says "Ok one more clue is that my youngest is really the youngest". Immediately the second mathematician answers. Can you answer the question asked by the first mathematician?

What are the children's ages?

Ans: 1 and 6 and 6

5)

Light glows for every 13 seconds. How many times did it between 1:57:58 and 3:20:47 am

Ans: $383 + 1 = 384$

6)

500 men are arranged in an array of 10 rows and 50 columns. Tallest among each row of ALL are asked to fall out. And the shortest among THEM is A. Similarly after resuming that to their original positions that the shortest among each column are asked to fall out. And the longest among them is B.

Now who is taller among A and B?

Ans: A

7)

A person spending out $\frac{1}{3}$ for cloths, $\frac{1}{5}$ of the remaining for food and $\frac{1}{4}$ of the remaining for travel. He is left with Rs 100/-.

How much did he have with him in the beginning?

Ans: Rs 250/-

8)

There are six boxes containing 5, 7, 14, 16, 18, 29 balls of either red or blue in colour. Some boxes contain only red balls and others contain only blue. One sales man sold one box out of them and then he says "I have the same number of red balls left out as that of blue".

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Which box is the one he sold out ?

Ans: Total no of balls = 89 and $(89-29)/2 = 60/2 = 30$

and also $14 + 16 = 5 + 7 + 18 = 30$

9)

A chain is broken into three pieces of equal lengths containing 3 links each. It is taken to a blacksmith to join into a single continuous one .

How many links are to be opened to make it ?

Ans : 2.

10)

Grass in lawn grows equally thick and in a uniform rate. It takes 24 days for 70 cows and 60 for 30 cows .

How many cows can eat away the same in 96 days.?

Ans : 20

g - grass at the beginning

r - rate at which grass grows, per day

y - rate at which cow eats grass, per day

n - no of cows, to be found

$g + 24r = 70 * 24 * y$

$g + 60r = 30 * 60 * y$

$g + 96r = n * 96 * y$

Solving, $n = 20$.

11)

There is a certain four digit number whose fourth digit is twice the first digit.

Third digit is three more than the second digit.

Sum of the first and fourth digits is twice the third number.

What is that number ?

Ans : 2034 and 4368

1. From a vessel on the first day, $1/3$ rd of the liquid evaporates. On the second day $3/4$ th of the remaining liquid evaporates. What fraction of the volume is present at the end of the 2nd day.

2. An orange glass has orange juice and white glass has apple juice. Both of equal volumes. 50ml of the orange juice is taken and poured into the apple juice. 50ml from the white glass is poured into the orange glass. Of the two quantities, the amount of apple juice in the orange glass and the amount of orange juice in the white glass, which one is greater and by how much?

3. There is a 4 inch cube painted on all sides. This is cut down into 1 inch cubes. What is the no of cubes which have no painted sides.

4. Sam and Mala have a conversation.

Sam says I am certainly not over 40

Mala says I am 38 and you are atleast 5 years older than me

Now Sam says you are atleast 39

All the statements by the two are false.

How old are they really?

5. 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 walk?

6. In a railway station, there are two trains going. One in the harbour line and one in the main line, each having a frequency of 10 minutes. The main line service starts at 5 o'clock. The harbour line starts at 5.02A.M. A man goes to the station every day to catch the first train that comes.

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What is the probability of the man catching the first train?

7. Some people went for a vacation. Unfortunately it rained for 13 days when they were there. But whenever it rained in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and 12 afternoons. How many days did they stay there totally?

8. Escalator problem repeat

9. A survey was taken among 100 people to find their preference of watching T.V. programmes. There are 3 channels. Given the no of people who watch

at least channel 1

" " 2

" " 3

no channels at all

atleast channels 1 and 3

" " 1 and 2

" " 2 and 3

Find the no of people who watched all three.

10. Albert and Fernandes have two leg swimming race. Both start from opposite ends of the pool. On the first leg, the boys pass each other at 18 m from the deep end of the pool. During the II leg they pass at 10 m from the shallow end of the pool. Both go at const speed. But one of them is faster. Each boy rests for 4 sec to see at the end of the I leg. What is the length of the pool?

11. Each alphabet stands for one digit in the following multiplication.

T H I S

I S

X F X X

X X U X

X X N X X

What is the maximum value T can take?

Answers for selected questions

2. equal

3. 8

4. 37(M), 41(S)

6. 0.8

7. 18

11. T max value = 4

1 An escalator is descending at constant speed. A walks down and takes 50 steps to reach the

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bottom. B runs down and takes 90 steps in the same time as A takes 10 steps.
How many steps are visible when the escalator is not operating?

2. Every day a cyclist meets a train at a particular crossing. The road is straight before the crossing and both are travelling in the same direction. The cyclist travels with a speed of 10 Kmph. One day the cyclist comes late by 25 min. and meets the train 5km before the crossing.
What is the speed of the train?

3. Five persons Mukherjee, Misra, Iyer, Patil and Sharma, all take their first or middle names in the full names. There are 4 persons having first or middle name of Kumar, 3 persons with Mohan, 2 persons with Dev and 1 Anil. --Either Mukherjee and Patil have a first or middle name of Dev or Misra and Iyer have their first or middle name of Dev --of Mukherjee and Misra, either both of them have a first or middle name of Mohan or neither have a first or middle name of Mohan --either Iyer or Sharma has a first or middle name of Kumar but not both.
Who has the first or middle name of Anil?

5. A bird keeper has got P pigeons, M mynas and S sparrows. The keeper goes for lunch leaving his assistant to watch the birds.

a) Suppose $p=10$, $m=5$, $s=8$ when the bird keeper comes back, the assistant informs the x birds have escaped. The bird keeper

exclaims oh no! all my sparrows are gone.

How many birds flew away?

b) When the bird keeper comes back, the assistant told him that x birds have escaped. The keeper realised that at least 2 sparrows have escaped.

What is minimum no of birds that can escape.

6. Select from the five alternatives A,B,C,D,E

AT THE end of each question, two conditions will be given.

the choices are to filled at follows.

a. if a definite conclusion can be drawn from condition 1

b. if a definite conclusion can be drawn from condition 2

c. if a definite conclusion can be drawn from condition 1 and 2

d. if a definite conclusion can be drawn from condition 1 or 2

e. no conclusion can be drawn using both conditions

1. person 1 says $N < 5$

person says $n > 5$

person 3 says $3N > 20$

person 4 says $3n > 10$

person 5 says $N < 8$

What IS the value of N?

a) 1. No of persons who speak false being less than no of persons who tells the truth.

2. Person 2 is telling the truth.

b) 1. no of persons telling the truth is greater than no of persons telling lies

2. person 5 is telling the truth.

7. There are N coins on a table. there are two players A&B. You can take 1 or 2 coins at a time. The person who takes the last coin is the loser. A always starts first.

--1. if $N=7$

a) A can always win by taking two coins in his first chance

b) B can win only if A takes two coins in his first chance.

c) B can always win by proper play

d) none of the above

--2. A can win by proper play if N is equal to

a) 13 b) 37 c) 22 d) 34 e) 48 ans. e.

--3. B can win by proper play if N is equal to

a) 25 b) 26 c) 32 d) 41 e) none

--4. if $N < 4$, can A win by proper play always

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8. Two twins have certain peculiar characteristics. One of them always lies on Monday, Wednesday, Friday. The other always lies on Tuesdays, Thursdays and Saturdays. On the other days they tell the truth. You are given a conversation.

person A-- today is Sunday my name is Anil
person B -- today is Tuesday, my name is Bill
What day is today?

Answers for selected questions

1. 150
2. 60 kmph
3. Mukherjee
5. 45 min.
8. Today is Tuesday
3. Anil Kumar Mukherjee
Kumar Misra Dev
Mohan Iyer Dev
Kumar Patil Mohan
Mohan Sharma Kumar

1)
There are two balls touching each other circumferentially. The radius of the big ball is 4 times the diameter of the small ball. The outer small ball rotates in anticlockwise direction circumferentially over the bigger one at the rate of 16 rev/sec.
The bigger wheel also rotates anticlockwise at N rev/sec.
What is ' N ' for the horizontal line from the centre of small wheel always is horizontal.

2)
XXXX
+ XXXX

XXXX
- XXXX

XXXX
+ XXXX

XXXX

Q) Strike off any digit from each number in seven rows (need not be at same place) and combine the same operations with 3 digit numbers to get the same addition. After this strike off another digit from all and add all the numbers to get the same addition. Perform the same process again with 2 and 1 digit numbers.
Give the numbers in 7 rows at each stage.

3)
There is a safe with a 5 digit number as the key. The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit. The 1st digit is thrice the last digit. There are 3 pairs whose sum is 11.
Find the number.

4)

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There are 2 guards Bal and Pal walking on the side of a wall of a wearhouse(12m X 11m) in opposite directions. They meet at a point and Bal says to Pal " See you again in the other side". After a few moments of walking Bal decides to go back for a smoke but he changes his direction again to his previous one after 10 minutes of walking in the other(opposite) direction remembering that Pal will be waiting for to meet.

If Bal and Pal walk 8 and 11 feet respectively, how much distance they would have travelled before meeting again.

5) xxx)xxxxx(xxx

3xx

xxx

x3x

xxx

3xx

Q) Find the five digit number, given that there are no 3's in the Xs. 5 is used atleast once in the calculation.

6)

A fly is there 1 feet below the ceiling right across a wall length is 30m at equal distance from both the ends. There is a spider 1 feet above floor right across the long wall eqidistant from both the ends. If the width of the room is 12m and 12m, what distance is to be travelled by the spider to catch the fly, if it takes the shortest path?

7)

Ramesh sit around a round table with some other men. He has one rupee more than his right person and this person in turn has 1 rupee more than the person to his right and so on, Ramesh decided to give 1 rupee to his right & he in turn 2 rupees to his right and 3 rupees to his right & so on. This process went on till a person has 'no money' to give to his right. At this time he has 4 times the money to his right person. How many men are there along with Ramesh and what is the money with poorest fellow.

8)

Question related to probabilities of removing the red ball from a basket,given that two balls are removed from the basket and the other ball is red. The basket contains blue,red,yellow balls.

9)

Venkat has 1boy&2daughters.The product of these children age is 72. The sum of their ages give their door number. Venkat says the boy is elder of three. Can you tell the ages of all the three.

----- Answers to Selected Questions

2) 1 2 3 4

+ 3 4 5 5

4 6 8 9

- 2 3 4 5

2 3 4 4

+ 1 2 5 4

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3 6 9 8

3) 65292

1) L:says all of my other 4 friends have money
M:says that P said that exact one has money
N:says that L said that precisely two have money
O:says that M said that 3 of others have money
P:Land N said that they have money
All are liars.
Who has money&who doesn't have?

2) A hotel has two,the east wing and the west wing.some east wing rooms but not all have an ocean view(OV).All WW have a harbour view(HV).The charge for all rooms is identical, except as follows
Extra charge for all HV rooms on or above the 3rd floor
Extra charge for all OV rooms except those without balcony
Extra charge for some HV rooms on the first two floor&some EW rooms without OV but having kitchen facilities
(GRE model Test 3-question 1J-22)

3) Post man has a data of name, surname, door no, pet name of 4 families. But only one is correct for each family. There are a set of statements & questions.

4) 4 couples have a party. Depending on the set of statements, find who insulted whom and who is the host of the party.

5) 5 women given some of their heights(tall,medium,short)Hair(long, plaited), stards(Black or Brown), Sari,2 medium,2-short.Tall->no sari.Plaited->medium.Answer the combinations.

6) A person has to go both Northwards&Southwards in search of a job. He decides to go by the first train he encounters. There are trains for every 15 min both southwards and northwards. First train towards south is at 6:00 A.M. and that towards North is at 6:10. If the person arrives at any random time, what is the probability that he gets into a train towards North.

7) A person has his own coach&whenever he goes to railway station he takes his coach. One day he was supposed to reach the railway station at 5 O'clock. But he finished his work early and reached at 3 O'clock. Then he rung up his residence and asked to send the coach immediately. He came to know that the coach has left just now to the railway station. He thought that the coach has left just now to the railway station. He thought that he should not waste his time and started moving towards his residence at the speed of 3mi/hr. On the way, he gets the coach and reaches home at 6 o'clock. How far is his residence from railway station.

8) Radha, Geeta & Revathi went for a picnic. After a few days they forgot the date, day and month on which they went to picnic. Radha said that it was on Thursday, May 8 and Geeta said that it was Thursday May 10. Revathi said Friday Jun 8. Now one of them told all things wrongly, others one thing wrong and the last two things wrongly.
If April 1st is Tuesday what is the right day, date and month?

1) At 6'o clock clock ticks 6 times. The time between first and last ticks was 30sec. How much time it takes at 12'o clock.
Ans. 66 sec. 2 marks.

2) Three friends divided some bullets equally. After all of them shot 4 bullets the total no. of remaining bullets is equal to that of

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one has after division. Find the original number divided.

Ans. x x x
 $x-4$ $x-4$ $x-4$
 $3x-12 = x$
 $x = 6$
 ans is 18 2 marks

3) A ship went on a voyage after 180 miles a plane started with 10 times speed that of the ship. Find the distance when they meet from starting point.

Ans. $180 + (x/10) = x$
 $x = 20$
 ans is $180+20=200$ miles. 2 marks

4) Fill the empty slots.

Three FOOTBALL teams are there. Given below the list of matches.

played	won	lost	draw	Goals for	Goals against
A	2	2	*0	*0	*7
B	2	*0	*1	1	2
C	2	*0	*1	*1	3

the slots with stars are answers. 4 marks

BC drew with 2-2

A won on B by 2-0

A won on C by 5-1

(YOU HAVE TO FILL THE BLANKS AT APPROPRIATE STAR SYMBOLS.)`

5)

There are 3 societies a,b,c. a lent tractors to b and c as many as they had. After some time b gave as many tractors to a and c as many as they have. After sometime c did the same thing. At the end of this transaction each one of them had 24.

Find the tractors each originally had.

Ans a had 39, b had 21, c had 12, 4 marks

6)

There N stations on a railroad. After adding x stations 46 additional tickets have to be printed. Find N and X.

Ans. let $N(N-1) = t$;
 $(N+x)(N+x-1) = t+46$;
 trial and error method $x=2$ and $N=11$ 4 marks

7) Given that April 1 is tuesday. a,b,c are 3 persons told that their farewell party was on

a - may 8, thursday

b - may 10, tuesday

c - june 8, friday

Out of a,b,c one is only correct one of the regarding month, day, date.

Other told two correct and the third person told all wrong. What is

correct date, month, day. 5 marks

(ans may be MAY 10 SUNDAY. check once again)

8) There are 4 parties. df,gs,dl(deposit loss),ew ran for a contest. Anup,Sujit,John made the following statements regarding results.

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Anup said either df or ew will definitely win

Sujit said he is confident that df will not win

John said he is confident that neither ew nor dl will win

The result has come. Only one of the above three has made a correct statement.

Who has made the correct statement and who has won the contest.

5 marks.

(ans DL)

9)

Five people a,b,c,d,e are related to each other. Four of them make one true statement each as follows.

i) b is my father's brother. (ans. d said this)

ii) e is my mother-in-law. (b)

iii) c is my son-in-law's brother. (e)

iv) a is my brother's wife. (c)

10 marks.

10)

All members of d are also members of a

All " e " d

All " c " both a and b

not all " a are members of d

not all " d " e

Some questions on these conditions. (5 questions 5 marks)

11)

Boys are allowed to watch football at C.V.Raman auditorium subjected to conditions.

i) the boy over age 16 can wear overcoat

ii) no boy over age 15 can wear cap

iii) to watch the football either he has to wear overcoat or cap or both

iv) a boy with an umbrella or above 16 or both cannot wear sweater.

v) boys must either not watch football or wear sweater.

What is the appearance of the boy who is watching football.

1. A bicycle goes 1 mile in three min with the wind and returns back in four min against the wind. How many min will it take to cover 1 mile when there is no wind? Ans. 24/7 min

2. A man passed 1/6th of his life in childhood, 1/12th as youth, 1/7th more as a bachelor; five years after his marriage a son was born who died four years before his father at half his final age. What is the total age of the man? Ans. 84

3. Alpha, Beta, Gamma, Theta, Epsilon. These are five diff. quantities

(i) If & only if $\alpha = \gamma$ then β is not equal to ϵ

(ii)

$\alpha - \beta = \beta - \gamma$

$\alpha > \theta$

(iii)

$\alpha > \beta$ & $\gamma > \theta$

Write

the quantities

in descending order.

Ans: $\alpha > \beta = \epsilon > \gamma > \theta$

4. A thief broke into a jewellery shop & thought of taking all the diamonds with him but while he was leaving, came to his better sense & thought of taking half with him. But he could not resist & took two more extra and left. A second thief came and took half of the remaining & two more. Then a third thief came and took half of the remaining and two more. Then a fourth thief came and did the same. The fifth thief came & found no more diamond for him. What was the initial no? of diamonds? Ans: 60.

5.

		S	E	N	D
+	M	O	R	E	=
M	O	N	E	Y	

What is the value of M, O, N, E?

ans.:

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$$\begin{array}{ccccccc} 9 & 5 & 6 & 7 & & + & 1 \\ 0 & 8 & 5 & = & 1 & 0 & 6 \\ 5 & 2 & & & & & \end{array}$$

6. Three men A, B, C went in three directions and had stolen a mule, a horse, a camel. They were caught by C.B.I. During their interrogation they gave the following statements:

A: B had stolen a horse.

B: A & C are both lying & I had stolen nothing.

C: A is lying & B had stolen mule.

One who had stolen a camel is telling a lie and who had stolen a horse is telling the truth. Among A, B, C, who had stolen which animal?

7. A scientist Sam arrived late in his lab and found that his watch was behaving in a strange way. The minute hand and the hour hand were coming together in every 65 min. Was his watch gaining or losing time & how much per hour? Ans. 5/11 min.

8. Question from BARRON'S GRE GUIDE. Model 1, text 2 section 6.

Question 8-12.

1). A beggar collects cigarette stubs and makes one full cigarette with every 7 stubs. Once he gets 49 stubs. How many cigarettes can he smoke totally.

Ans. 8

2). A soldier loses his way in a thick jungle at random walks from his camp but mathematically in an interesting fashion. First he walks one mile east then half mile to north. Then 1/4 mile to west, then 1/8 mile to south and so on making a loop. Finally how far he is from his camp and in which direction.

ans: in north and south directions

$$\begin{aligned} &1/2 - 1/8 + 1/32 - 1/128 + 1/512 - \text{and so on} \\ &= 1/2 / ((1 - (-1/4))) \end{aligned}$$

similarly in east and west directions

$$\begin{aligned} &1 - 1/4 + 1/16 - 1/64 + 1/256 - \text{and so on} \\ &= 1 / ((1 - (-1/4))) \end{aligned}$$

add both the answers

3). how 1000000000 can be written as a product of two factors neither of them containing zeros

Ans $2^9 \times 5^9$ (check the answer)

4). Conversation between two mathematicians:

first: I have three children. The product of their ages is 36

. If you sum their ages, it is exactly same as my neighbour's door number on my left. The second mathematician verifies the door number and says that the not sufficient. Then the first says "o.k one more clue is that my youngest is the youngest"

Immediately the second mathematician answers. Can you answer the question asked by the first mathematician?

What are the children's ages?

ans 2 and 3 and 6

5). Light glows for every 13 seconds. How many times did it between 1:57:58 and 3:20:47 am

$$\text{ans: } 383 + 1 = 384$$

6). 500 men are arranged in an array of 10 rows and 50 columns. ALL tallest among each row are asked to fall out. And the shortest among THEM is A. Similarly after resuming that to their original positions that the shortest among each column are asked to fall out. And the longest among them is B. Now who is taller among A and B?

ans A

7). A person spending out 1/3 for clothes, 1/5 of the remaining for food and 1/4 of the remaining for travel is left with Rs 100/-. How much he had in the beginning?

ans RS 250/-

8). there are six boxes containing 5, 7, 14, 16, 18, 29 balls of either red or blue in colour. Some

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boxes contain only red balls and others contain only blue . One sales man sold one box out of them and then he says " I have the same number of red balls left out as that of blue ". Which box is the one he sold out ?

Ans : total no of balls = 89 and $(89-29)/2 = 60/2 = 30$

and also $14 + 16 = 5 + 7 + 18 = 30$

9). A chain is broken into three pieces of equal lengths containing 3 links each. It is taken to a blacksmith to join into a single continuous one . How many links are to be opened to make it ?

Ans : 2.

10). Grass in lawn grows equally thick and in a uniform rate. It takes 24 days for 70 cows and 60 for 30 cows . How many cows can eat away the same in 96 days.?

Ans : 18 or 19

11). There is a certain four digit number whose fourth digit is twice the first digit. Third digit is three more than second digit. Sum of the first and fourth digits twice the third number. What was that number ?

Ans : 2034 and 4368

1. Five people A ,B ,C ,D ,E are related to each other.

Four of them make one true statement each as follows. (8 marks)

(i) B is my father's brother.

(ii) E is my mother-in-law.

(iii) C is my son-in-law's brother

(iv) A is my brother's wife.

who made these statements and what are the relationships among them?

Ans: (i) D

(ii) B

(iii) E

(iv) C

2. father's wife is reverse of son's age . one year back father's age was twice of son's age . what's the

father's current age ?

ans : 73

3. An escalator is descending at constant speed. A walks down and takes 50 steps to reach the bottom. B runs down and takes 75 steps in the same time as A takes 3 steps. How many steps are visible when the escalator is not operating?

4. a man asks a weatherman what's the past five days temp? he says i didn't remember but i can say their product is 12 and all are diff temperatures. what are the five temperatures?

ans: -2,-1,1,2,3

5: there are 100 men among them 80 have telephones and 70 have cars and some 75 have houses and 85 have mobiles.(data is not exact) . what is the minimum number of men that have all these things.?

6: there is a truck which should reach some place at 11'o clock , if it travels with 30 mph it reaches 1 hour before , if it travels with 20 mph it reaches 1 hour late. what is the distance it must be traveled and what is the speed it must maintain to reach at exact time?

ans: 120 miles and 24 mph

7: there are some stones (may be 6231) with equal weight, but one of them having more weight than others, how many times we need to weigh to find that overweighted stone?

ans: 12 (as per the number given there, that no of stones i didn't remember exactly).

8: two and half artists with two and half canvases and two in two and half hours can paint two and

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half drawings. how many artists are needed for 24 canvases and 24 drawings in 20 hours?

9. Find the total number of rectangles (include squares also as rectangles) in a 8×8 standard chessboard?

10 .Find the minimum no of tyres required for a standard old modeled four-wheeled car to travel 48000miles,if 24000miles per each tyre?

11. Mr. Sekhar and Ms. Sekhar are having conversation like this:

Mr. Sekhar said to Ms. Sekhar: "Give me three quarters of what you have , i will add it with what i have, totally to buy a house at indiranagar for 5000/-,remaining at hand with you can be bought the running stream and groove".

Ms.Sekhar, said , "No, No, give me two thirds of what you have , i will add it with what i have ,totally we can buy the house ,and the groove and running stream we can buy with the remaining money we have". Can you find the money required to buy the groove and stream?

1. Three neighbors are there. 1st one lends 2nd and 3rd that many no. of tractors that then already each had. After few months, 2nd lends to 1st and 3rd that many tractors then they had. After a few months 3rd lends to 1st and 2nd that many tractors then they had. Now each of them got 24. Find how many they had initially?

Ans: 39 21 12

2. 3 members expect which will be the elected party among 4 parties namely Flying party, Eatwell, Good sleep, Loosing parties

X expects that either f.p or e.w.p will win.

Y expects that either f.p or g.s will win

Z expects that neither e.w.p nor g.s.p will win

One part of each members statement is correct. Which party will win?

Ans: F.P

3. Three members are hunting in a forest. While crossing a stream cartridges of two of them gets wetted up. Then the third person divides his cartridges equally. After 4 shots of each person, total cartridges remaining are equal to what each had initially after sharing. How many total cartridges they initially they shared?

Ans: 18

$$\begin{array}{ccc} & Y & \\ Y/3 & Y/3 & Y/3 \\ Y/3-4 & Y/3-4 & Y/3-4 \end{array}$$
$$3(Y/3-4) = Y/3$$
$$Y=18$$

4. All members belonging to D are members of A

do.....E.....D

do.....C.....both A&D

Some members of A does not belong to D

do.....D.....E

5 questions are there.

5. Boys are allowed to watch football at c.v.Raman auditorium subjected to conditions.

1. the boy over age 16 can wear overcoat

2. no boy over age 15 can wear cap

3. to watch the football either he has to wear overcoat or cap or both

4. a boy with an umbrella or above 16 or both cannot wear sweater.

5. boys must either not watch football or wear sweater.

What is the appearance of the boy who is watching football.

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Ans: Who are above 15 and below 16 with cap. :

1. My neighbor has seven children. Every brother has equal no. of brothers and sisters, but each sister has twice as many brothers as sisters? Ans: 4,3

2. There are 11 more animals than birds in a pet shop. If there are as many birds as animals and if there are as many animals as birds the no. of legs is $\frac{4}{5}$ of the original. How many birds and animals are there? Ans: 22,11

3. One soap can be made out of the scraps obtained while preparing 11 soaps. How many soaps can be prepared out of the scrap obtained out of 251 soaps. (Take all possibilities) Ans: 25

4. There is a 5 digit no. 3 pairs of sum is eleven each.

Last digit is 3 times the first one.

3rd digit is 3 less than the second.

4th digit is 4 more than the second one.

Find the digit.

Ans : 25296.

5. 2XX

3XX

5XX

X4X

XX3

XXXXX

Find out the X's and seven is not there in the calculation. Ans: 281x332

6. There are 5 burglars and once went to a bakery to rob it obviously The first guy ate $\frac{1}{2}$ of the total bread and $\frac{1}{2}$ of the bread The second guy ate $\frac{1}{2}$ of the remaining and $\frac{1}{2}$ of the bread. The third guy ,fourth guy and fifth guy did the same. After fifth guy there is no bread left out. How many bread are there? Ans:31

7. The main line train starts at 5.00AM and the harbor line train starts at 5.02AM. Each train has the frequency of 10 minutes. If a guy goes in the morning at a random time what is the probability of he getting main line train? Ans: 0.8

8. There is 66x33m rectangular area. Ram is $\frac{11}{8}$ times faster than Krishna. Both of them started walking at opposite ends and they met at some point then, Ram said "See you in the other end" Then they continued walking. After some time Ram thought he will have tea so he turned back walked back 15 meters then he changed his mind again and continued walking .How much Krishna has traveled by the time they meet?

9. There are some chicken in a poultry. They are fed with corn. One sack of corn will come for 9 days. The farmer decides to sell some chicken and wanted to hold 12 chicken with him. He cuts the feed by 10% and sack of corn comes for 30 days. So initially how many chicken are there? Ans:36

10. Escalator Problem. A person walking takes 26 steps to come down on a escalator and it takes 30 seconds for him for walking. The same person while running takes 18 second and 34 steps. How many steps are there in the escalator? Ans:46

1. There are 4 married couples out of which 3 a group is needed . But there should not be his of her spouse. How many groups are possible ? Ans 32

2. In the 4 digits 1,2,3,4 how many 4 digested numbers are possible which are divisible by 4?

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Repetitions are allowed. Ans 64

3. Two men are going along a track rail in the opposite direction. One goods train crossed the first person in 20 sec. After 10 min the train crossed the other person who is coming in opposite direction in 18 sec. After the train has passed, when the two persons will meet? Approx 72min check it once.

4. The no. of children adults . The no. of adults the no. of boys . The no. of boys no. of girls .The no. of girls no. of family conditions

1. No family is without a child

2. Every girl has at least one brother and sister .

Ans cabgf; 9 6 5 4 3 .

6. There are 4 boys Anand, Anandya, Madan and Murali with nick names perich, zomie, drummy and madeena not in the same order. Some conditions

Ans Anand : Perich

Anandya: Drummy

Madan : Zombie

Murali: Madeena

7. There are 2 diamonds, 1 spade and 1 club and 1 ace and also 1 king , 1 jack and 1 ace are arranged in a straight line

1. The king is at third place

2. The left of jack is a heart and its right is king

3. No two red colors are in consecutive.

4. The queens are separated by two cards. Write the order which suits (hearts ,clubs) and names jacks queens etc.)

8. Write each statements true or false

1. The sum of the 1st three statements and the 2nd false statement gives the true statement.

2. The no. of true statements false statement

3. The sum of 2nd true statement and 1st false statement gives the first true statement.

4. There are at most 3 false statements

5. There is no two consecutive true statements

6. If this contains only 1-5 statements, the answer of this is same as the answer of the following question

9. Question on Venn diagram.

All handsome are also fair skinned

Some muscular are fair skinned

Some muscular are also handsome

All lean are also muscular

Some lean are also fair skinned.

All rich man is not fair skinned but all rich man are handsome

10 There are 3 piles each contain 10 15 20 stones. There are A,B,C,D,F,G and H persons. One man can catch upto four stones from any pile. The last man who takes will win. If first A starts next B. and so on who will win? Ans May be F

1. 9 cards are there. u have to arrange them in a 3*3 matrix. cards are of 4 colors. they are red,yellow,blue,green.

conditions for arrangement:

one red card must be in first row or second row.

2 green cards should be in 3rd column.

Yellow cards must be in the 3 corners only.

Two blue cards must be in the 2nd row.

At least one green card in each row.

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Solution:

Yellow	Red	Green
Blue	Blue	Green
Yellow	Green	Yellow

2. 4 cards are placed on a table, each card has two colors. U don't know the color of the back side of each card. 4 persons A B C and D are sitting on the table before the cards. They can see Red, Green, Red and blue. Out of the 4 people 2 always lie. They see the color on the reverse side and give the following comment

A: Yello/green

B: Neither Blue/nor Green

C: Blue/Yello

D: Blue/ Yello

find out the color on the other side of the 4 cards.

3. Red and brown tribes [FROM BARRONS GRE] Conditions to get married with each other.

4. Venn diagram regarding Rich, muscular, soft-skinned, employed, etc., (Refer BARRONS GRE GUIDE)

1. Two people X & Y walk on the wall of a go down in opposite direction. They meet at a point on one side and then go ahead. X after walking for some time, walks in opposite direction for 15 mtrs. Then again he turns back and walks in the original direction. What distance did Y walk before they met again, if X walks 11 mtrs by the time Y walks 8 mtrs.

2. Problem from SAKUNTALA DEVI 'PUZZLES TO PUZZLE U'. Problem no: 23(Walking back to happiness.) The walking time : 55 mins.

1. There are twelve consecutive flags at an equal interval of distance. A man passes the 8th flag in 8 seconds. How many more seconds will he take to pass the remaining 4 flags ?

2. A person has to cover the fixed distance through his horses. There are five horses in the cart. They ran at the full potential for the 24 hours continuously at constant speed and then two of the horses ran away to some other direction. So he reached the destination 48 hours behind the schedule. If the five horses would have run 50 miles more, then the person would have been only 24 hours late. Find the distance of the destination.

3. A boat M leaves shore A and at the same time boat B leaves shore B. They move across the river. They met at 500 yards away from A and after that they met 300 yards away from shore B without halting at shores. Find the distance between the shore A & B.

4. A person was going through train from Bombay to Pune. After every five minutes he finds a train coming from opposite direction. Velocity of trains are equal of either direction. If the person reached Pune in one hour then how many trains he saw in the journey ?

5. Food grains are to be sent to city from go down. Owner wants to reach the food grains at 11 O' Clock in the city. If a truck travels at a speed of 30km/hr then he will reach the city one hour earlier. If the truck travels at a speed of 20km/h then he will reach the city one hour late. Find the distance between the go down to city. Also with which speed the truck should travel in order to reach at exactly 11 'O clock.

6. Praveen, Ranjan, Shiva went to dinner in the city. (There were some conditions given as someone always take tea after dinner where as some take coffee after dinner whereas someones choice is inspired by the choice of others. One question of this type is given given in the MIND TREASURES -By Summers.) Ans: Ranjan & Shiva

7. There are five persons A,B,C,D,E whose birthdays occur at the consecutive days. Birthday of A is

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some days or day before C & birthday of B is exactly the same days or day after E. D is two days older than E. If birth day of C is on Wednesday then find out the birthdays of other.

1. Statements given by different family members.

1. B is my father's brother
2. E is my mother-in-law.
3. C is my son-in-law's brother
4. A is my brother's wife.

A,B,C,D,E are the family members. Who made above statements and give their relations.

Ans: A,B are couple.

E is B's brother-in-law.

D is B's son.

C is B's brother

Ans: statement Member

1 D

2 B

3 E

4 B

4. Three girls are discussing about the party which they attended in the past.

1st girl: Party was on May 8Th , Thursday.

2nd girl: Party was on May 10th ,Tuesday.

3rd girl: Party was on June 8th Friday.

Conditions:

1.One girl's statement totally wrong.

2.In one girl's statement only one part is correct(means it may be date, year or month).

3.In another girl's statement except one part , every thing is true.

Find the Day the party held. (5marks).

Ans :May 8th Tuesday may be correct) (ans may be MAY 10 SUNDAY. check once again)

5. A ship is away from the shore by 180 miles. A plane is traveling at 10 times speed of the ship. How long from the shore will they meet? (200miles) Distance travelled by plane = 1/10 distance traveled by ship + 180

6. Every station in N railroad issue every other station's ticket. some stations are added. Now they have to issue 46 more tickets. say the No. of stations after and before added.

Ans. let $N(N-1) = t$;

$$(N+x)(N+x-1) = t+46;$$

trial and error method $x=2$ and $N=11$

7. 3 persons say these statements.

A says either Democratic or liberal wins the elections.

B says Democratic wins.C says neither democratic nor liberal wins the election.

Of these only one is wrong. who wins the election?

8. A clock showing 6 o'clock takes 30 secs to strike 6 times. How long will it take to strike 12 at midnight? Ans.66 secs.

1. A software engineer starts from home at 3pm for evening walk. He walks speed of 4kmph on level ground and then at a speed of 3kmph on the uphill and then down the hill at a speed of 6kmph to the

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level ground and then at a speed of 4kmph to the home If he reaches home at 9pm. What is the distance on the way ? Ans 24 km

2. A bag contains certain number of files, Each file is numbered with one digit of 0 to 9. Suppose the person wants to get the number between 1 to 2000(or 7000 check). How many minimum no. of files should be present in the bag.

3. $A + B + C + D = D + E + F + G = G + H + I = 17$. If $A = 4$. What are the values of D and G. Each letter taken only one of the digit from 1 to 9.

ans: $A = 4$, $B = 2$, $C = 6$, $D = 5$, $E = 3$, $F = 8$, $G = 1$, $H = 7$, $I = 9$.

4. Six persons A,B,C,D,E &F went to soldier cinema. There are six consecutive seats. A sits in the first seat followed by B, followed by C and so on. If A taken on of the six seats, then B should sit adjacent to A. C should sit adjacent to A or B. D should sit adjacent to A, B or C and so on. How many possibilities are there ?

5. Suppose there are four grades A, B, C, D. (A is the best and D is the worst) 4 persons Jack, Jean, Poul and Lucy wrote the final exam and made the statements like this

1. Jack: If I will get A then Lucy will get D

2. Lucy: If I will get C then Jack will get D. Jack grade is better than Poul grade.

3. Jean: If Jean doesn't get A then Jack will not get A

4. Poul: If Jack get A, then Jean will not get B, Lucy will get C, I won't either A or B

If all the above statements are true, then which person will get which grade.

6. Each man dances with 3 women, Each women dances with 3 men. Among each pair of men they have exactly two women in common. Find the no. of men and women.

1. A man collects cigarette stubs and makes one full cigarette with every 8 stubs. If he gets 64 stubs how many full cigarettes can he smoke. Ans: $8+1=9$

2. A soldier loses his way in a thick jungle. At random he walks from his camp but mathematically in an interesting fashion. First he walks one mile East then half mile to North. Then $1/4$ mile to West, then $1/8$ mile to South and so on making a loop. Finally how far he is from his camp and in which direction.

Ans: Distance traveled in north and south directions

$$1/2 - 1/8 + 1/32 - 1/128 + 1/512 - \text{and so on}$$

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

Similarly in east and west directions

$$1 - 1/4 + 1/16 - 1/64 + 1/256 - \text{and so on}$$

$$= 1 / (1 - (-1/4))$$

Add both the answers

3. How can 1000000000 be written as a product of two factors neither of them containing zeros

Ans: $2^{\text{power } 9} \times 5^{\text{power } 9}$

4. Conversation between two mathematicians:

First : I have three children. The product of their ages is 36.

If you sum their ages, it is exactly same as my neighbor's door number on my left.

The second mathematician verifies the door number and says that it is not sufficient.

Then the first says " Ok one more clue is that my youngest is really the youngest". Immediately the second mathematician answers .

Can you answer the question asked by the first mathematician?

What are the children ages?

Ans 1,6 and 6

5. Light glows for every 13 seconds . How many times did it glow between 1:57:58 and 3:20:47 am.

Ans : $383 + 1 = 384$

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6. 500 men are arranged in an array of 10 rows and 50 columns according to their heights.
Tallest among each row of all are asked to fall out.
And the shortest among them is A.
Similarly after resuming that to their original positions that the shortest among each column are asked to fall out.
And the tallest among them is B .
Now who is taller among A and B ?
Ans A

7. A person with some money spends $\frac{1}{3}$ for cloths, $\frac{1}{5}$ of the remaining for food and $\frac{1}{4}$ of the remaining for travel. He is left with Rs 100/- How much did he have with him in the beginning ?
Ans: Rs 250/-

8. There are six boxes containing 5 , 7 , 14 , 16 , 18 , 29 balls of either red or blue in color. Some boxes contain only red balls and others contain only blue. One sales man sold one box out of them and then he says " I have the same number of red balls left out as that of blue ". Which box is the one he sold out ?
Ans: Total no of balls = 89 and $(89-29)/2 = 60/2 = 30$ and also $14 + 16 = 5 + 7 + 18 = 30$

9. A chain is broken into three pieces of equal lengths containing 3 links each. It is taken to a blacksmith to join into a single continuous one. How many links are to be opened to make it ?
Ans : 2.

10. Grass in lawn grows equally thick and in a uniform rate. It takes 24 days for 70 cows and 60 days for 30 cows to eat the whole of the grass. How many cows are needed to eat the grass in 96 days.?
Ans : 20
g - grass at the beginning
r - rate at which grass grows, per day
y - rate at which one cow eats grass, per day
n - no of cows to eat the grass in 96 days
 $g + 24*r = 70 * 24 * y$
 $g + 60*r = 30 * 60 * y$
 $g + 96*r = n * 96 * y$
Solving, n = 20.

11. There is a certain four digit number whose fourth digit is twice the first digit. Third digit is three more than second digit. Sum of the first and fourth digits twice the third number. What was that number ? ans : 2034 and 4368

1. From a vessel on the first day, $\frac{1}{3}$ rd of the liquid evaporates. On the second day $\frac{3}{4}$ th of the remaining liquid evaporates. what fraction of the volume is present at the end of the II day. Ans 50%
Another similar question
X liters of liquid is in a glass. First day $\frac{1}{3}$ rd of it was evaporated. II nd day $\frac{1}{2}$ of the rest was evaporated. What is the last fraction of liquid. For this answer is $\frac{1}{3}$

3. There is a 4 inch cube painted on all sides. This is cut into no of 1 inch cubes. What is the no of cubes which have no pointed sides. ans: 8

4. Sam and Mala have a conversation. Sam says I am certainly not over 40. Mala says I am 38 and you are at least 5 years older than me. Now Sam says you are at least 39. All the statements by the two are false. How hold are they really. ans: Mala is 38 years. Sam is 41 years.

5. 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 Ramsingh 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

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house, half an hour early. How much time did Ram singh walk? Ans: 45 minutes

6. Some people went for vacation. unfortunately it rained for 13 days when they were there. But whenever it rained in the morning, they had clean afternoon and vice versa. In all they enjoyed 11 morning and 12 afternoons. How many days did they stay there totally ? ans 18

7. A survey was taken among 100 people to find their preference of watching t.v. programmes. There are 3 channels. Given no of people who watch

at least channel 1

" " 2

" " 3

no channels at all

atleast channels 1 and 3

" " 1 and 2

" " 2 and 3

find the no of people who watched all three.

8. Albert and Fernandes have two leg swimming race. Both start from opposite end of the pool. On the first leg, the boys pass each other at 18 mt from the deep end of the pool. During the II leg they pass at 10 mt from the shallow end of the pool. Both go at const speed. But one of them is faster. Each boy rests for 4 sec to see at the end of the I leg. What is the length of the pool.

9.. T H I S Each alphabet stands for one

I S digit, what is the maximum value T

----- can take

X F X X

X X U X

X X N X X

ans T max value = 4

1. An escalator is descending at constant speed. A walks down and takes 50 steps to reach the bottom. B runs down and takes 90 steps in the same time as A takes 10 steps. How many steps are visible when the escalator is not operating. Ans: 150 steps

2. Every day a cyclist meets a train at a particular crossing. The road is straight before the crossing and both are traveling in the same direction. Cyclist travels with a speed of 10 Kmph. One day the cyclist comes late by 25 min. and meets the train 5km before the crossing. What is the speed of the

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train. Ans: 60 kmph

3. Five persons Muckerjee, Misra, Iyer, Patil and Sharma, all take their first or middle names in the full names. There are 4 persons having 1 or middle name of kumar, 3 persons with Mohan, 2 persons with dev and 1 anil.

--Either mukherjee and patil have a 1 or middle name of dev or misra and iyer have their 1 or middle name of dev of mukherjee and misra

--either both of them have a first or middle name of mohan or neither have a first or middle name of mohan

--either iyer of sharma has a 1 or middle name of kumar but not both.

who has the 1 or middle name of anil

ans: Mukherjee

Anil Kumar Mukherjee

Kumar Misra dev

Mohan Iyer dev

kumar Patil mohan

Mohan Sharma kumar

5. A bird keeper has got P pigeon, M mynas and S sparrows. The keeper goes for lunch leaving his assistant to watch the birds. suppose $p=10$, $m=5$, $s=8$

a. when the bird keeper comes back, the assistant informs that x birds have escaped. The bird keeper exclaims oh no! all my sparrows are gone. How many birds flew away.

b. when the bird keeper come back, the assistant told him that x birds have escaped. The keeper realized that at least 2 sparrows have escaped.

What is minimum no of birds that can escape.

6. Select from the five alternatives A,B,C,D,E

At the end of each question, two conditions will be given. The choices are to filled at follows.

- a. if a definite conclusion can be drawn from condition 1
- b. if a definite conclusion can be drawn from condition 2
- c. if a definite conclusion can be drawn from condition 1 and 2
- d. if a definite conclusion can be drawn from condition 1 or 2
- e. no conclusion can be drawn using both conditions

1. person 1 says $N < 5$

person 2 says $n > 5$

person 3 says $3N > 20$

person 4 says $3n > 10$

person 5 says $N < 8$

what is the value of N

a) 1. no of persons who speak false being less than no of persons who tells the truth.

2. person 2 is telling the truth.

b) 1. no of persons telling the truth is greater than no of persons telling lies

2. person 5 is telling the truth.

7. There are N coins on a table. There are two players A&B. You can take 1 or 2 coins at a time. The person who takes the last coin is the loser. A always starts first

--1. if $N=7$

a) A can always win by taking two coins in his first chance

b) B can win only if A takes two coins in his first chance.

c) B can always win by proper play

d) none of the above

--2. A can win by proper play if N is equal to

a) 13 b) 37 c) 22 d) 34 e) 48 ans. e.

--3. B can win by proper play if N is equal to

a) 25 b) 26 c) 32 d) 41 e) none

--4. if $N < 4$, can A win by proper play always

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8. Two twins have certain peculiar characteristics. One of them always lies on Monday, Wednesday, Friday. The other always lies on Tuesdays, Thursdays and Saturdays. On the other days they tell the truth. You are given a conversation.

person A-- today is sunday my name is anil

person B-- today is tuesday, my name is bill

ans: today is tuesday

1. There are 4 parties A,B,C,D. There are 3 people x,y,z.

X-says A or D will win.

Y-says A will not win.

Z-says B or D will not win.

Only one of them is true. Which party won.

2. A gardener has a peculiar way of planting trees. He plants 100 ft. towards east, then he plants 100ft. towards north 100ft. towards west, 98ft towards south. From that 98ft towards east, from that point 96ft towards north. When a man starts walking in the middle of the path outside garden. What is the total distance he traveled to reach the centre. Ans. 5200.

3. There is a T-agency in Mangalore and Bangalore. Total time taken in 9hrs. Trucks starts from both points at 6 a.m to 9 a.m in one hr intervals.

a. The truck when starts at 6 a.m in the morning mets how many trucks on the way.

b. How many trucks a truck which starts at 9 p.m will meet.

For a and b Ans.9

4. Ramesh has X rupees, on Monday beginning of the month. On every Monday his mother gives 10 rupees as pocket money. He spends half of what he had during that week on the 4th Monday of the month, when his mother gave his pocket Monday, he had 27 $\frac{1}{2}$ rupees . What was the Money he had in the beginning. Ans. 70/-

5. R,S,T,U,V are contesting for a medal. Evaluation is over, sasy English, Maths, Physics, Chemistry and Hindi. Toper will get 5 marks, least will get 1mark. No ties any where. R get 24 and won the overall medal. V-get 1 st in Chemistry and 3 rd in Hindi, T got consistent scores in 4 subjects. Their final standings where in the alphabetical order. What was the score of S in Chemistry.

6. There are 3 types of castes, say A,B,C. A- always tells truth, B- always false, C- alternating.

X says --> Z is of C type, I am of A type

Y says --> X is a B type.

Z says --> X is of B type.

Who is of which type.

7.. There are two families Sinha and Gupta with 2 children each. Pratap, Praveen, Lalit and Rajesh are 4 children. Each family has 2 children. All the children ages are approx. to the nearest integer. We have to find which all children are in which family and their corresponding ages which are <11.

1. Praveen is the eldest one.

2. Pratap is 5 years older then the youngest of the family .

3. Lalit is $\frac{1}{2}$ of the age of the eldest of the Gupta family.

8. In a bank there is a Teller, Manager and Cashier says x,s etc.,

1. Teller is one who earns least

2. X has married S's sister.

3. Cashier earns more than manager.

Find out who is who.

ans. Cashier's wife is manager, X is the cashier, S is sister of the manager.

1. There is a robbery and four persons are suspected. Out of them one is actual thief, these are the sentences said by each one of them!

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A says D had done
B says A had done
C says i didn't done
D B lied when he said that I am thief
out of these only one man is true remaining are false
ans: C is thief, D is true!

2. How many four digit numbers divisible by four can be formed using 1,2,3,4; repetitions are not allowed! ans: 6

3. A vender sold two things at same cost of 12 RS with one item at 25%profit and other at 20%loss,by this transaction he made profit or loss by how much Ans: loss - 60paise

4. Two friends A,B are running up hill and then to get down! length of road is 440 yards A on his return journey met B going up at 20 yards from top, A has finished the race 5 minutes earlier than B, then how much time A had taken to complete the race. Ans: 6.3 minutes

5. Barons question. diagnostic test question 8-12, 5 men and 5 women went for foot ball match.....

6. Write a five digit number, which will be having two prime numbers, and some two more conditions, like 1st digit greater than 2nd etc its easy (remember one is not a prime number, most people do mistake taking 1 as prime number) ans 71842

7. Two employees were there.

Employee one says to employee two, 'your work experience twice as me'

Employee 2 says, 'exactly'

Employee 1 says, 'but two years before you said that your work experience is thrice as me'

Employee 2 says, 'yes its also true'

What are their work experience

ans 4,8

8. There are four persons A,B,C,D and four languages english ,french ,german italian, conditions

1 only one language is spoken by more than two men

2 A dont know english

3 a man can speak either french or german but not both

4 all man cannot speak in a group (no common language)

5 A can mediate when B and C want to speak with each other

6 each man can speak two languages

ans

A french italian

B english french

C german italian

D german italian

9. There are 3 women, they are having three jewels, named diamond, emerald and ruby

3 women A,B,C

3 thieves D,E,F

Each thief had taken one jewel from each of the women following conditions

one who had taken diamond is the bachelor and most dangerous

D 's brother in law E who is less dangerous than the thief who had stolen emerald (this is the key from this E had stolen ruby)

D didn't stolen from B

one more condition is there

10. There were five persons out of which two persons hair went white and three persons hair is black.

Conditions :

If A's hair is white then B's hair is white

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A's hair is not black if C's hair is not black
two more conditions but we can easily solve it from first condition
ans is A and B's hair is white

1 Two time glasses 7,4 how you measure 9

2 Four persons have to cross the bridge they are having one torch light four persons take 1,2,5,10 minutes respectively, when two persons are going it will take the time of the slowest person. What's the time taken to cross all of them Ans 17minutes

3 A non uniform rope burns for one hour how you will measure half an hour
Ans lit it from both sides!

1. There are two balls touching each other circumferentially. The radius of the big ball is 4 times the diameter of the small ball. The outer small ball rotates in anticlockwise direction circumferentially over the bigger one at the rate of 16 rev/sec. The bigger wheel also rotates anticlockwise at N rev/sec. what is ' N ' for the horizontal line from the centre of small wheel always is horizontal.

```
2.  1 2 3 4
    + 3 4 5 5
    -----
      4 6 8 9
    - 2 3 4 5
    -----
      2 3 4 4
    + 1 2 5 4
    -----
      3 6 9 8
```

Strike off any digit from each number in seven rows (need not be at same place) and combine the same operations with 3 digit numbers to get the same addition. After this strike off another digit from all and add all the No.s to get the same 2 digit No. perform the same process again with 1 digit No.s. Give the 'no.s in 7 rows at each stage.

3. There are 2 guards Bal and Pal walking on the side of a wall of a warehouse(12m X 11m) in opposite directions. They meet at a point and Bal says to Pal "See you again in the other side". After a few moments of walking Bal decides to go back for a smoke but he changes his direction again to his previous one after 10 minutes of walking in the other (opposite) direction remembering that Pal will be waiting for to meet. If Bal and Pal walk 8 and 11 feet respectively, how much distance they would have traveled before meeting again.

```
4.      xxx)xxxxx(xxx

          3xx
          -----
          xxx
          x3x
          -----
          xxx
          3xx
```


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Find the 5 digit No. Hint: 5 is used at least once in the calculation.

5. A fly is there 1 feet below the ceiling right across a wall length is 30m at equal distance from both the ends. There is a spider 1 feet above floor right across the long wall equidistant from both the ends. If the width of the room is 12m and 12m, what distance is to be traveled by the spider to catch the fly? if it takes the shortest path.

6. Ramesh sit around a round table with some other men. He has one rupee more than his right person and this person in turn has 1 rupee more than the person to his right and so on, Ramesh decided to give 1 rupee to his right & he in turn 2 rupees to his right and 3 rupees to his right & so on. This process went on till a person has 'no money' to give to his right. At this time he has 4 times the money to his right person. How many men are there along with Ramesh and what is the money with poorest fellow.

7. Question related to probabilities of removing the red ball from a basket, given that two balls are removed from the basket and the other ball is red. The basket contains blue,red,yellow balls.

8. Venkat has 1 boy & 2 daughters. The product of these children age is 72. The sum of their ages give the door number of Venkat. Boy is elder of three. Can you tell the ages of all the three.

1. L:says all of my other 4 friends have money
M:says that P said that exact one has money
N:says that L said that precisely two have money
O:says that M said that 3 of others have money.
P:Land N said that they have money.
All are liers.Who has money & who doesn't have?

2. A hotel has two wings, the east wing and the west wing. some east wing rooms but not all have an ocean view(OV).All WW have a harbour view(HV).The charge for all rooms is identical, except as follows

- * Extra charge for all HV rooms on or above the 3rd floor
- * Extra charge for all OV rooms except those without balcony
- * Extra charge for some HV rooms on the first two floor&some EW rooms without OV but having kitchen facilities.

Which of the following cannot be determined on the basis of the information given:

- I. Whether there are any rooms without a balcony for which an extra charge is imposed.
- II. Whether any room without a kitchen or a view involves an extra charge.
- III. Whether two extra charges are imposed for any room.

- (A) I only
(B) II only
(C) III only
(D) II and III only
(E) I, II and III

(This question is from 1999 Barrons GRE Guide model Test 3 - section 6, question 22)

Ans: A

3. Post man has a data of name surname door no. pet name of 4 families. But only one is correct for each family. There are a set of statements & questions.

4. 4 couples have a party. Depending on the set of statements, find who insulted whom and who is the host of the party.

5. Women given some of their heights (tall, medium, short), hair (long, plained), studs (Black or Brown), sari,2 medium,2-short.Tall->no sari. Painted->medium.Answer the combinations.

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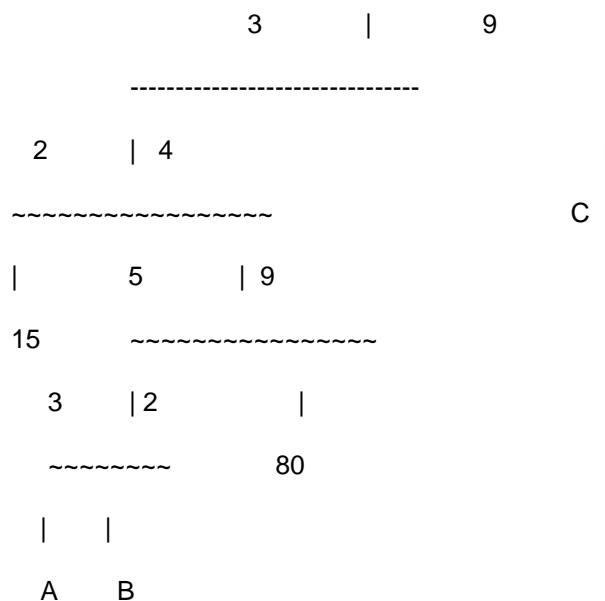
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1. A person has to go both Northwards & Southwards in search of a job. He decides to go by the first train he encounters. There are trains for every 15 min both southwards and northwards. First train towards south is at 6:00 A.M. and that towards North is at 6:10 .If the person arrives at any random time, what is the probability that he gets into a train towards North.

2. A person has his own coach & whenever he goes to railway station he takes his coach. One day he was supposed to reach the railway station at 5 O'clock. But he finished his work early and reached at 3 O'clock. Then he rung up his residence and asked to send the coach immediately. He came to know that the coach has left just now to the railway station. He thought that he should not waste his time and started moving towards his residence at the speed of 3miles/hr. On the way, he gets the coach and reaches home at 6 o'clock. How far is his residence from railway station.

1. Persons A and B. Person A picks a random no. from 1 to 1000. Then person B picks a random no. from 1 to 1000. What is the probability of B getting no. greater than what A has picked.

2. Some free body diagram is given



For equilibrium find values of A,B,and C.

3. Three boys and three girls brought up together. Jim, Jane, Tom, Virgina, Dorthy, XXX.

They marry among themselves to form three couples. Conditions are :

- i) Sum of their ages would be the same.
 - ii) Virgina was the oldest.
 - iii) Jim was dorthy's brother.
 - iv) Sum of ages Jane+Jim and Tom+dorthy is same.
- Give the three couples.

4. $X^{(1/3)} - X^{(1/9)} = 60$ Solve for X.

5. $X Z Y + X Y Z = Y Z X$ Find the three digits.

6. Two boats start from opposite banks of river perpendicular to the shore. One is faster then the other. They meet at 720 yards from one of the ends. After reaching opposite ends they rest for 10mins each. After that they start back. This time on the return journey they meet at 400yards from

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the other end of the river. Calculate the width of the river.

7. Basketball Tournament organizers decided that two consecutive defeats will knock out the team. There are 51 teams participating. What is the maximum no. of matches that can be played.

8. The Master says to his grandmaster that me and my three cousins have ages in prime nos. only. Summation of our ages is 50. Grandmaster who knows the age of the master instantly tells the ages of the three cousins. Tell the ages of three cousins. (1 is not considered as prime no.)

9. There are two families Alens and smiths. They have two children each. Their names are A,B,C,D whose ages are different and ages are less than or equal to 11. The following conditions are given.

i) A's age is three years less than his brother's age.

ii) B is eldest among the four.

iii) C is half the age of the eldest in Alens family.

iv) The difference in sum of the ages of Alens children and smiths children is same as that of five years ago. Find the ages of all the children.

1. $be * be = acb$. a, b, c, e are non zero numbers find b, e .

ans $b=1$ $e=9$

2. a, b, c, d, e are having numerical values. There are some conditions given

a) $a=c$ $b=e$

b) difference between a and c is same as difference between c and b
as same as difference between a and d

c) $c < a$ and cd

Then find a, b, c, d, e

3. There are six cards in which it has two king cards. all cards are turned down and two cards are opened

a) what is the possibility to get at least one king.

b) what is the possibility to get two kings.

4. A person went to a shop and asked for change for 1.15 paise. but he said that he could not only give change for one rupee, but also for 50p, 25p, 10p and 5p. what were the coins he had

ans 1--50 4---10p 1---25p

5. There are 3 nurses and they work altogether only once in a week. no nurse is called to work for 3 consecutive days.

nurse 1 is off on tuesday, thursday and sunday.

nurse 2 is off on saturday.

nurse 3 is off on thursday, sunday.

no two nurses are off more than once a week.

Find the day on which all the 3 nurses were on work.

6. There are 5 persons a, b, c, d, e and each is wearing a black or white cap on his head. a person can see the caps of the remaining 4 but can't see his own cap. a person wearing white says true and who wears black says false.

i) a says i see 3 whites and 1 black

ii) b says i see 4 blacks

iii) e says i see 4 whites

iiii) c says i see 3 blacks and 1 white.

Now find the caps worn by a, b, c, d and e

7. There are two women, kavitha and shamili and two males shyam, aravind who are musicians. out of these four one is a pianist, one flutist, violinist and drummer.

i) across aravind beats pianist

ii) across shyam is not a flutist

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- iii) kavitha's left is a pianist
- iiii) shamili's left is not a drummer
- v) flutist and drummer are married.

1. A frog jumps 3 ft comes back 2ft in a day. In how many days it will come out of 30ft deep well
ans 28 day

2. $A-B=C$ $D/E=F$ $G+H=I$ $C.F=I$
ans $A=9, B=5, C=4, F=2$.

3. When the actual time pass 1hr wall clock is 10 min behind it when 1 hr is shown by wall clock, table clock shows 10 min ahead of it when table clock shows 1 hr the alarm clock goes 5 min behind it, when alarm clock goes 1 hr wrist watch is 5 min ahead of it assuming that all clocks are correct with actual time at 12 noon what will be time shown by wrist watch after 6 hr? Ans---5:47:32.5
($n \times 60$) $50/60 \times 70/60 \times 55/60 \times 65/60$

4. One question was about cards. 4 persons play the game of cards. Cards are of 4 colour yellow green blue, red. Find colours of playing cards which are hidden
ans remember the sequence yellow,yellow,green,blue

5. One very easy question just solve two eq, about ages i remember only
ans boy=10yrs or girl =4 yrs or vice versa pl. check it

6. There are 2 scales of temp A & B. It was given A 14 to 133, B 36 to 87. Find the temp when temp of A is equal to temp of B ? Ans 52.5

1. S: Satch, J:Jute ans
person1: Most of us are satch J
person2: Most of us are jute S
person3: Two of us are satch J
person4: Three of us are jute J
person5: I am satch J

We have to find who is satch and who is jute.

2. Four persons are there to cross a bridge. They have one torch light

person A can cross in 1 min

person B can cross in 2 min

person C can cross in 5 min

person D can cross in 10 min

They have to cross bridge with in 17 min. At a time only two persons can cross.

I A&B ----> 2

II A <----1

III C&D ---->10

IV B <----2

V A&B ---->2

Total 17

3. 7 hours hour glass. 11 hours hour glass. you have to boil one egg for 15 hours

4. What is the maximum number of slices can you obtain by cutting a cake with only 4 cuts?
ans: 16

5. Three are three boxes ,

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In one box Two white balls
In two box 2 black balls
In three box 1white &1 black

The labels on the boxes are not correct. Then you have to open one box and to find the color of the balls in all boxes.

Ans: Open the box labeled black & white. If white balls are there then the box labeled with white balls contain black balls and labeled with black balls contain one black and one white ball and vice versa if two black balls are there.

1. When Arthur is as old as his father Hailey is now, he shall be 5 times as old as his son Clarke is now. By then, Clarke will be 8 times older than Arthur is now. The combined ages of Hailey and Arthur are 100 years. How old is Clarke ?

3. The seven digits in this subtraction problem are 0,1,2,3,4,5 and 6. Each letter represents the same digit whenever it occurs.

D A D C B

E B E G

B F E G

What digit is represented by each letter ?

4. The Jones have named their four boys after favorite relatives; their friends, the Smiths, have done the same thing with their three boys. One of the families has twin boys. From the following clues, can you determine the families of all seven children and their ages ?

- Valentine is 4 years older than his twin brothers.
- Winston, who is 8, and Benedict are not brothers. They are each named after a grandfather.
- Briscoe is two years younger than his brother Hamilton, But three years older than Dewey.
- Decatur is 10 years old.
- Benedict is 3 years younger than Valentine; they are not related.
- The twins are named for uncles.

5. Motorboat A leaves shore P as B leaves Q; they move across the lake at a constant speed. They meet first time 600 yards from P. Each returns from the opposite shore without halting, and they meet 200 yards from. How long is the lake ?

6. Fanta, Pepsi and Citra often eat dinner out.

- Each orders either coffee or tea after dinner.
- If Fanta orders coffee, then Pepsi orders the drink that Citra orders.
- If Pepsi orders coffee, then Fanta orders the drink that Citra does not order.
- If Citra orders tea, then Fanta orders the drink that Pepsi orders.

Which person/persons always orders the same drink after dinner ?

7. On the Island of imperfection there is a special road, Logic Lane, on which the houses are usually reserved for the more mathematical inhabitants. Add, Divide and Even live in three different houses on this road (which has houses numbered from 1-50). One of them is a member of the Pukka Tribe, who always tell the truth; another is a member of the Wotta Tribe, who never tell the truth; and the third is a member of the Shalla Tribe, who make statements which are alternately true and false, or false and true.

They make statements as follows :

ADD: 1 The number of my house is greater than that of Divide's.

2 My number is divisible by 4.

3 Even's number differs by 13 from that of one of the others.

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DIVIDE : 1 Add's number is divisible by 12.

2 My number is 37.

3 Even's number is even.

EVEN : 1 No one's number is divisible by 10.

2 My number is 30.

3 Add's number is divisible by 3.

Find to which tribe each of them belongs, and the number of each of their houses.

8. The names of the inhabitants of Walkie Talkie Land sound strange to the visitors, and they find it difficult to pronounce them, due to their length and a few vowel sounds they contain. The Walkie Talkie guide is discussing the names of four inhabitants - A,B,C and D. Their names each contain upto eight syllables, although none of the four names contain the same number. Two of the names contain no vowel sounds; one contains one vowel sound; and one contains two vowel sounds. From the Guide's statements below, determine the number of syllables and vowel sounds in each of the four Walkie Talkie names :

i) The one whose name contains two vowel sounds is not A.

ii) C's name does not contain more than one vowel sound or fewer than seven syllables.

iii) The name with seven syllables does not contain exactly one vowel sound.

iv) B and C do not have names with the same number of vowel sounds.

v) Neither the name with five syllables nor the name with seven syllables contains more than one vowel sound.

vi) Neither the name with six syllables, nor the B's name, contains two vowel sounds.

9. Multiplication and Division.

(1) - - - - - (a) (2) _ _ . _ (d)

```

                                     _____
      - - - (b)    - - -) - - - - - . 0
      _____
                                     - - -
                                     _____
      - - - - -
      - - - - -                      - - - -
      _____
                                     - - -
                                     _____
      - - - - - (c)
                                     - - -
                                     - - -
                                     =====
```

(1) and (2) represent the same two numbers - in one case multiplied 9 together, in other case divided.

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Given that there are no 3's. find the missing digits indicated as (a), (b), (c) and (d) above ?

10. Two identical twins have a very unusual characteristic. One tells nothing but lies on Mondays, Wednesdays and Fridays, and tells nothing but the truth all other days. The other tells nothing but lies on Tuesdays, Thursdays and Saturdays, and tells nothing but the truth all other days. On Sundays both children speak the truth.

1) Which of the following statements can be deduced from the information presented ?

- i) If it is Sunday, the twins will both say so.
 - ii) If it is not Sunday, one twin will give the correct day and the other will lie about everything.
 - iii) On any given day, only one twin will give his correct name.
- a) i only
 - b) i and ii only
 - c) i and iii only
 - d) ii and iii only
 - e) i, ii and iii

2) According to the information presented, which of the following conversations will be impossible.

- a) Twin A : "Today you are a liar"
Twin B : "You are telling the truth"
- b) Twin A : "Today you are a liar"
Twin B : "Today I am a truth teller"
- c) Twin A : "Tomorrow I shall be a liar"
Twin B : "That's correct"
- d) Twin A : "Tomorrow you will be a liar"
Twin B : "Today you are a truth teller"
- e) Twin A : "Yesterday we were both truth tellers"
Twin B : "You are lying"

3) Assume that the twins followed a different set of rules, so that on a given day both told only the truth while next day both only lied, alternating days of truth telling and lying. Under these rules, which of the following conversations would be possible ?

- a) Twin A : "Today you are a liar"
Twin B : "That is correct"
- b) Twin A : "Today you are a liar"
Twin B : "That is not so"
- c) Twin A : "Tomorrow we will be liars"
Twin B : "Yesterday we were truth tellers"
- d) Twin A : "Tomorrow we will be liars"
Twin B : "You are 1 year older than I am"
- e) Twin A : "We always tell the truth"
Twin B : "We some times tell the truth"

4) If the twins are heard saying the following on the same day, which choice presents a correct statement ?

- Twin A : "It is Sunday Today"
 - Twin B : "Yesterday was Sunday"
 - Twin A : "it is summer season now"
- a) it is a summer sunday
 - b) it is a summer monday
 - c) it is Monday but not summer
 - d) it is Sunday but not summer
 - e) it is impossible to determine whether it is Sunday or Monday.

1. Robert, Raj and Rasul always take dinner together. After dinner each will order either coffee or tea.

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- (a) If Rasul orders coffee, Raj orders what Robert orders
- (b) If Raj orders coffee, Rasul orders what Robert doesn't order
- (c) If Robert orders Tea, Rasul orders what Raj orders

Who orders always same drink

- (i) Rasul (ii) Rasul and robert (iii) All (iv)-----

ans:All

2. Major Raj, his brother, daughters and son are always playing mixed doubles

(i) MJ.Raj brother is playing across the net directly opposite to MJ. Raj's daughter.

(ii) MJ.Raj's son is playing diagonally across the net of the worst player's sibling

(iii) Each team made up of best and worst player of the slot.

Who is the best player?

- (a)MJ Raj (b)His brother (c)His son (d) Insufficient data

3. There are nine cards numbered 1-9

(i) card 5 is in centre

(ii) card 9 is in row in which card 5 is there

(iii) card 4 is in same column in which card 9 is present

(iv) card 1 and card 6 are adjacent to each other

(v) sum of each rows is equal to 15 only

(vi) sum of each diagonal is also 15

Nine cards are arranged in three rows and three columns. Adjacent means two cards are in same row or in same column next to each other. Consider all possible answers.

(i) which of the following are definitely adjacent to each other. ans 1&5

(ii) which two cards do not come definitely adjacent to each other. ans 5&4

(iii) the middle column adds upto. ans 15

iv) the middle column can't be added upto X)10 Y)15 Z) 20. ans X&Z

Possible Tables

2 7 6 6 2 7

9 5 1 1 5 9

4 3 8 3 8 4

1. Father's age is three years more than three times the son's age. After three years, father's age will be ten years more than twice the son's age. What is the father's present age.

Ans: 33 years.

2. Find the values of each of the alphabets.

NOON
SOON
+ MOON

JUNE

Ans: 9326

3. There are 20 poles with a constant distance between each pole. A car takes 24 second to reach the 12th pole. How much will it take to reach the last pole.

Ans: 41.45 seconds Let the distance between two poles = x Hence $11x:24::19x:?$

4. A car is traveling at a uniform speed. The driver sees a milestone showing a 2-digit number. After traveling for an hour the driver sees another milestone with the same digits in reverse order. After another hour the driver sees another milestone containing the same two digits. What is the average

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speed of the driver.

Ans: 45 kmph

5. The minute and the hour hand of a watch meet every 65 minutes. How much does the watch lose or gain time and by how much?

Ans: Gains; 5/11 minutes

6. Ram, Shyam and Gumnaam are friends.

Ram is a widower and lives alone and his sister takes care of him.

Shyam is a bachelor and his niece cooks his food and looks after his house.

Gumnaam is married to Gita and lives in large house in the same town.

Gita gives the idea that all of them could stay together in the house and share monthly expenses equally. During their first month of living together, each person contributed Rs.25. At the end of the month, it was found that Rs 92 was the expense so the remaining amount was distributed equally among everyone. The distribution was such that everyone received a whole number of Rupees. How much did each person receive?

Ans. Rs 2 (Hint: Ram's sister, Shyam's niece and Gumnaam's wife are the same person)

7. Four persons A, B, C and D are playing cards. Each person has one card, laid down on the table below him, which has two different colors on either side. The colors visible on the table are Red, Green, Red and Blue. They see the color on the reverse side and give the following comment.

A: Yellow or Green

B: Neither Blue nor Green

C: Blue or Yellow

D: Blue or Yellow

Given that out of the 4 people 2 always lie find out the colors on the cards each person.

Ans: yellow,yellow,green,blue

1. The Bulls, Pacers, Lakers and Jazz ran for a contest. Anup, Sujit, John made the following statements regarding results.

Anup said either Bulls or Jazz will definitely win

Sujit said he is confident that Bulls will not win

John said he is confident that neither Jazz nor Lakers will win

When the result came it was found that only one of the above three had made a correct statement.

Who has made the correct statement and who has won the contest.

Ans: Sujit; Lakers

2. In certain community there are thousand married couples. Two thirds of the husbands who are taller than their wives are also heavier. And three quarters of the husbands who are heavier than their wives are also taller. If there are 120 wives who are taller and heavier than their husbands, how many husbands are taller and heavier than their wives ?

1. Mr.Mathurs jewels have been stolen from his bank locker .

The bank has lockers of 12 people which are arranged in an array of 3 rows and 4 columns like:

1 2 3 4

5 6 7 8

9 10 11 12

The locker belonging to JONES was to the right of BLACK'S locker and directly above MILLAR'S.

BOOTH'S locker was directly above MILLAR'S.

SMITH'S locker was also above GRAY's (though not directly).

GREEN'S locker was directly below SMITH'S.

WILSON'S locker was between that of DAVIS and BOOTH.

MILLAR'S locker was on the bottom row directly to the right of HERD'S.

WHITE'S locker was on the bottom right hand corner in the same column as BOOTH'S.

Which box belonged to Mr.Mathurs?

Ans: Box number 9 belongs to Mr.Mathurs.

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2. Fifty minutes ago if it was four times as many minutes past three o'clock, how many minutes is it to six o'clock? Ans: Twenty six minutes.

3. If a clock takes 7 seconds to strike 7, how long will the same clock take to strike 10?

Ans: The clock strikes for the first time at the start and takes 7 seconds for 6 intervals-thus for one interval time taken = $7/6$.

Therefore, for 10 seconds there are 9 intervals and time taken is $9 \times 7/6 = 10 \text{ and } 1/2$ seconds.

4. Three criminals were arrested for shop lifting. However, when interrogated only one told the truth in both his statements, while the other two each told one true statement and one lie. The statements were:

ALBERT : (a) Chander passed the merchandise. (b) Bruce created the diversion.

BRUCE : (a) Albert passed the merchandise. (b) I created the diversion.

CLIVE : (a) I took the goods out of the shop. (b) Bruce passed them over.

Ans: Albert passed the goods. Bruce created the diversion. Clive took the goods out of the shop.

5. Everyday in his business a merchant had to weigh amounts from 1 kg to 121 kgs, to the nearest kg. What are the minimum number of weights required and how heavy should they be?

Ans: The minimum number is 5 and they should weigh 1, 3, 9, 27 and 81 kgs.

6. A hotel has 10 storeys. Which floor is above the floor below the floor, below the floor above the floor, below the floor above the fifth.

Ans: The sixth floor.

7. Seven members sat around a table for three days for a conference. The members' names were Abhishek, Amol, Ankur, Anurag, Bhuwan, Vasu and Vikram. The meetings were chaired by Vikram. On the first evening members sat around the table alphabetically. On the following two nights, Vikram arranged the seating so that he could have Abhishek as near to him as possible and absent minded Vasu as far away as he could. On one evening did any person have sitting next to him a person who had previously been his neighbor. How did Vikram manage to seat everybody to the best advantage on the second and third evenings?

Ans:

Second evening: Vikram, Ankur, Abhishek, Amol, Vasu, Anurag, Bhuwan.

Third evening : Vikram, Anurag, Abhishek, Vasu, Bhuwan, Ankur, Amol.

8. Two trains start from stations A and B spaced 50 kms apart at the same time and speed. As the trains start, a bird flies from one train towards the other and on reaching the second train, it flies back to the first train. This is repeated till the trains collide. If the speed of the trains is 25 km/h and that of the bird is 100 km/h. How much did the bird travel till the collision. Ans: 100 kms.

9. Four prisoners escape from a prison. The prisoners, Mr East, Mr West, Mr South, Mr North head towards different directions after escaping. The following information of their escape was supplied:

The escape routes were The North Road, South Road, East Road and West Road.

None of the prisoners took the road which was their namesake.

Mr. East did not take the South Road

Mr. West did not take the South Road.

The West Road was not taken by Mr. East

What road did each of the prisoners take to make their escape?

Ans: Mr. East took the North Road

Mr. West took the East Road

Mr. North took the South Road

Mr. South took the West Road.

10. Complete the series: 5, 20, 24, 6, 2, 8, ?

Ans: 12 (as $5 \times 4 = 20$, $20 + 4 = 24$, $24/4 = 6$, $6 - 4 = 2$, $2 \times 4 = 8$, $8 + 4 = 12$).

1. Replace each letter by a digit. Each letter must be represented by the same digit and no beginning

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letter of a word can be 0.

O N E

O N E

O N E

O N E

T E N

Ans: $0 = 1, N = 8, E = 2, T = 7$

2. Ann, Boobie, Cathy and Dave are at their monthly business meeting. Their occupations are author, biologist, chemist and doctor, but not necessarily in that order. Dave just told the biologist that Cathy was on her way with doughnuts. Ann is sitting across from the doctor and next to the chemist. The doctor was thinking that Boobie was a goofy name for parent's to choose, but didn't say anything. What is each person's occupation?

Ans: Since Dave spoke to the biologist and Ann sat next to the chemist and across the doctor, Cathy must be the author and Ann the biologist. The doctor didn't speak, but David did, so Bobbie is the doctor and Dave the chemist.

3. Sometime after 10:00 PM a murder took place. A witness claimed that the clock must have stopped at the time of the shooting. It was later found that the position of both the hands were the same but their positions had interchanged. Tell the time of the shooting (both actual and claimed).

Ans: Time of shooting = 11:54 PM

Claimed Time = 10:59 PM

4. Next number in the series is 1, 2, 4, 13, 31, 112, ?

Ans: 224. No number has digits more than 4. All of them are 1, 2, 4, 8, 16, 32, 64 converted to numbers in base 5

5. Shahrukh speaks truth only in the morning and lies in the afternoon, whereas Salman speaks truth only in the afternoon. A says that B is Shahrukh. Is it morning or afternoon and who is A - Shahrukh or Salman. ? Ans: Afternoon ; A is Salman.

6. Two trains starting at same time, one from Bangalore to Mysore and other in opposite direction arrive at their destination 1 hr and 4 hours respectively after passing each other. How much faster is one train from other? Ans: Twice

7. There are 6 volumes of books on a rack kept in order (ie vol.1, vol. 2 and so on). Give the position after the following changes were noticed. All books have been changed

Vol.5 was directly to the right of Vol.2

Vol.4 has Vol.6 to its left and both weren't at Vol.3's place

Vol.1 has Vol.3 on right and Vol.5 on left

An even numbered volume is at Vol.5's place

Find the order in which the books are kept now.

Ans: 2, 5, 1, 3, 6, 4

8. I bought a car with a peculiar 5 digit numbered license plate which on reversing could still be read. On reversing value is increased by 78633. Whats the original number if all digits were different?

Ans: Only 0 1 6 8 and 9 can be read upside down. So on rearranging these digits we get the answer as 10968

9. The shape in the sketch below is that of a square attached to half of a similar square. Divide it into four equal pieces Ans: Hint : the figure can be divided into 12 equal triangles

10. Supposing a clock takes 7 seconds to strike 7. How long will it take to strike 10?

Ans: 10 1/2 seconds.

1. There are 100 bulbs and their corresponding switches. All the bulbs are initially on. Then the status of bulbs divisible by 2 is changed(ie on-->off & off-->on) Same is done for all the nos till 100.

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Find how many bulbs are on in the end. Ans. all perfect squares. not sure. solve and check

2. Three boys--- may speak false or truth. Just remember this the answer because no one remembers the statements exactly.

ans = grey color of the horse

3. There are some couples and their children. Some facts about them

families < girls

adults > boys

children > adults

boys > girls

There are no childless couples. Each girl has at most one sister and at least 1 brother. Find the no of families ? Ans 3

4. There are 111 players participating in a singles tennis tournament. The player who is losing will be out of the tournament. For each and every match, one new ball is taken. Find the no. of balls required for the entire tournament. Ans: 110

5. Anan with her son went for shopping.. She met her husband's mother's only daughter in law's sister's husband. Find the relation between anan and the mentioned person.

ans: anan --> sister's husband

6. Question on sets:

In a city, there are 23080 people.

30% read "a" newspaper.

35% read "b" newspaper

40% read "c" newspaper

1/3 of total read both a and b

25% read both b and c

34% read both a and c

1/3 read all the three.

find.

1. the no. of persons who read a only. (approx., 4000+)

2. b only (0)

3. c only

4. none of the papers

7. Question on finding the "day"

six persons are there. a..f

a: the day before yesterday is either friday or saturday.

b: today is saturday.

c: today is not saturday but either friday or saturday.

d: day after tomorrow is not tuesday.

e:

f:

Answer: friday

2. Two trains are crossing each other. the speed of one train is given. Calculate the time for the engine of one train crosses the other train.. chk. the question correctly.. it is available in sakuntala devi's "puzzle 2 puzzle u"

6. Question on finding who is familiar with which language..

some five names are given.

and five statements are given.

analyze all the statements ..

e.g.. "a" knows somewhat eng but not either urdu or tulu..

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7. I have got some money in my bag .(which is stolen after shopping I and II). I spent 10% of my money for shopping (I) For second time,10% of the remaining money is spent for shopping (II) The total bill amount=Rs.18. Find the amount which will be remaining in the bag? Answer:Rs.81

1. An arrangement of 8 persons namely (Afrin, Mun, John, Rider, Mark, Bal, Smith,) sitting around a table (circular or not was not mentioned) with some conditions. 8 marks

2. Every station in a rail road issue every other station's ticket. Some stations are added. Now they have to issue 46 more tickets. The number of stations before and after addition is ?

3. A girl is at twelve. Her mother's age is forty five years. The girl demanded a bi-cycle upon which the mother told to give her one, when the age of the mother is three times that of her daughter. When will she get the bicycle?

4. There is a large cube painted red on all side. Six-straight cuts are made resulting in 27 small cubes.

State how many cubes have:

3 sides colored

2 sides colored

1 sides colored

uncolored

5. A boat is going downstream. A man follows the boat to some extent and then comes back upstream to the point from where he started. It took him 10 mints to return back, At this time a hat fell in the river and started floating downstream to which the man again chased and got it within 1000 yards.Find the speed of the current.

6. There is a class of students where

one third were under 12

one half were under 13 and 6 were eleven yrs.

The number of students between 11 and 12 were equal that of between 12 and 13.

Find the figure!

IF u were able to at least attempt all questions until the one above, I guarantee that you can simply clear the Infosys exam ...

BEST OF LUCK From CHERIAN *TINU ABRAHAM*

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