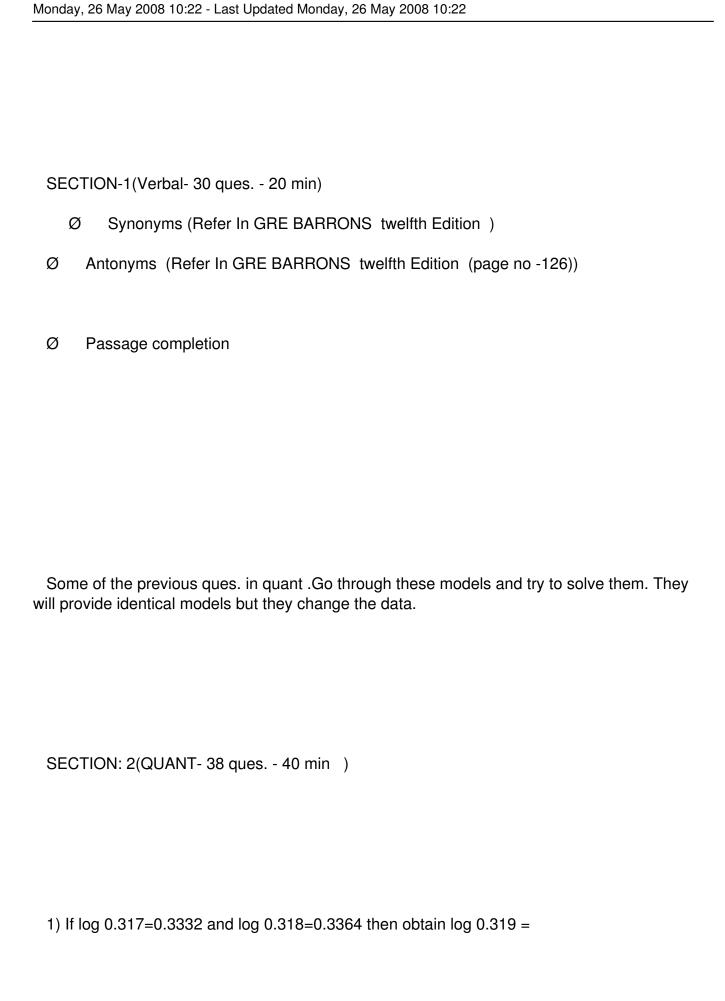
Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 ::jseblod::10003::/jseblod:: ::company::384::/company:: ::day::24::/day:: ::month::May::/month:: ::year::2008::/year:: ::placement paper type::Whole Testpaper::/placement paper type:: ::placement paper hidden:: ::/placement paper hidden:: ::test location::LBRCE,mylavaram::/test location:: ::attachment x:: ::/attachment x:: ::other:: ::/other:: ::isratingchanged::0::/isratingchanged:: ::mod comment:: ::/mod comment:: ::old rating::2::/old rating:: ::moderation status::2::/moderation status:: ::photo x::32::/photo x:: ::jseblod photo x::photo x::/jseblod photo x:: ::article basic layout|0|photo x::Left::/article basic layout|0|photo x:: ::article text|0|photo x:: TATA CONSULTANCY SERVICES **Experience Certainty** TCS Recruitment Rounds

Written Test

Ø

1 / 78

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22	
Ø	tech. Interview
Ø	MR (Managerial)
Ø	HR Interview
WRI	TTEN TEST :(ONLINE TEST)
Cont	oine three morte
Cont	ains three parts
1)	Verbal (Synonyms – Antonyms - Comprehension Passages)
2)	Quantitative Aptitude
3)	Critical Reasoning



Written by Web

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 Sol: provided log 0.317=0.3332 and log 0.318=0.3364 Then Log 0.319 = log 0.318 + (log 0.318 - log 0.317)=0.3396::/article text|0|photo x:: ::photo|0|photo x::::/photo|0|photo x:: ::photo size|0|photo x::Full::/photo size|0|photo x:: ::ad unit|0|photo x::Large Rectangle All 336x280::/ad unit|0|photo x:: ::jseblodend photo x::::/jseblodend photo x:: ::jseblod photo x::/jseblod photo x:: ::article basic layout|1|photo x::Left::/article basic layout|1|photo x:: ::article text|1|photo x:: 2) A box of 150 packets consists of 1kg packets and 2kg packets. Total weight of box is 264kg. How many 2kg packets are there? Sol: Given x= two kg Packs

y= one kg packs

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

$$=> 2x + y = 264$$
 Eqn 2

On solving these 2 equations

$$x = 114$$

By using formula 1

$$114 + y = 150$$

$$=> y = 36$$

=>Number of two kg Packs = 114.

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

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

a) 6:00 am b) 6:40am c) 7:40 d) 7:00 e) 8:00
Sol: (Hint: Every one deg longitude is equal to four minutes. If west to east add time else subtract time)
Ans: 8:00
4) A Flight takes off at two A.M from northeast direction and travels for 11 hours to reach the destination, which is in northwest direction. provided the latitude and longitude of source and destination. obtain the local time of destination when the flight reaches there?
Ans: 7 AM (or) one PM
5) A moves three kms east from his starting point. He then travels five kms north. From that point he moves eight kms to the east. How far is A from his starting point?
Ans: 13 kms
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Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22
<pre>::photo_size 1 photo_x::Full::/photo_size 1 photo_x:: ::ad_unit 1 photo_x::Large_Rectangle_All_336x280::/ad_unit 1 photo_x:: ::jseblodend_photo_x::/jseblodend_photo_x:: ::jseblod_photo_x::photo_x::/jseblod_photo_x:: ::article_basic_layout 2 photo_x::Left::/article_basic_layout 2 photo_x:: ::article_text 2 photo_x::</pre>
6) Aeroplane is flying at a particular angle and latitude, after a few time latitude is provided. (8 hrs later), u r asked to obtain the local time of the place.
7) An Aeroplane begins from A (SOME LATITUDE IS provided ACCORDING TO PLACE). At two AM local time to B (SOME LATITUDE). Traveling time is 10 Hours. What is the local time of B when it reaches B?
8) A plane moves from 9°N40°E to 9°N40°W. If the plane begins at 10 am and takes eight hours to reach the destination, obtain the local arrival time.
Sol: Since it is moving from east to west longitude we need to add both
le, 40+40=80
Multiply the ans by 4
=>80*4=320min

100 Whole restpaper r lacement r aper 24 may 2000 EbrioE, mylavaram
Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22
Convert this min to hours i.e., 5hrs 33min
It takes 8hrs totally. So 8-5hr 30 min=2hr 30min
So the ans is 10am+2hr 30 min
Ans: 12:30 it will reach
9) The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?
Sol: The time being taken to fill the bucket.
After reaching program it waits there for 10ms and back to the programmer in
20 ms. then total time to get the response is
20ms +10 ms=30ms

Ans: 30ms

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

10) A file is transferred from 1 location to a different in 'buckets'. The size of the bucket is 10 kilobytes. Eh bucket gets filled at the rate of 0.0001 kilobytes per millisecond. The transmission time from sender to receiver is 10 milliseconds per bucket. After the receipt of the bucket the receiver sends an acknowledgement that reaches sender in 100 milliseconds. Assuming no fault during transmission, write a formula to compute the time taken in seconds to successfully complete the transfer of a file of size N kilobytes.

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Ans: (n/1000)*(n/10)*10+ (n/100).... (Not 100% sure)
```

11)A fisherman's day is rated as good if he catches nine fishes ,fair if seven fishes and bad if five fishes .He catches 53 fishes in a week n had all good, fair n bad days in the week. So how many good, fair n bad days did the fisher man had in the week.

Sol:

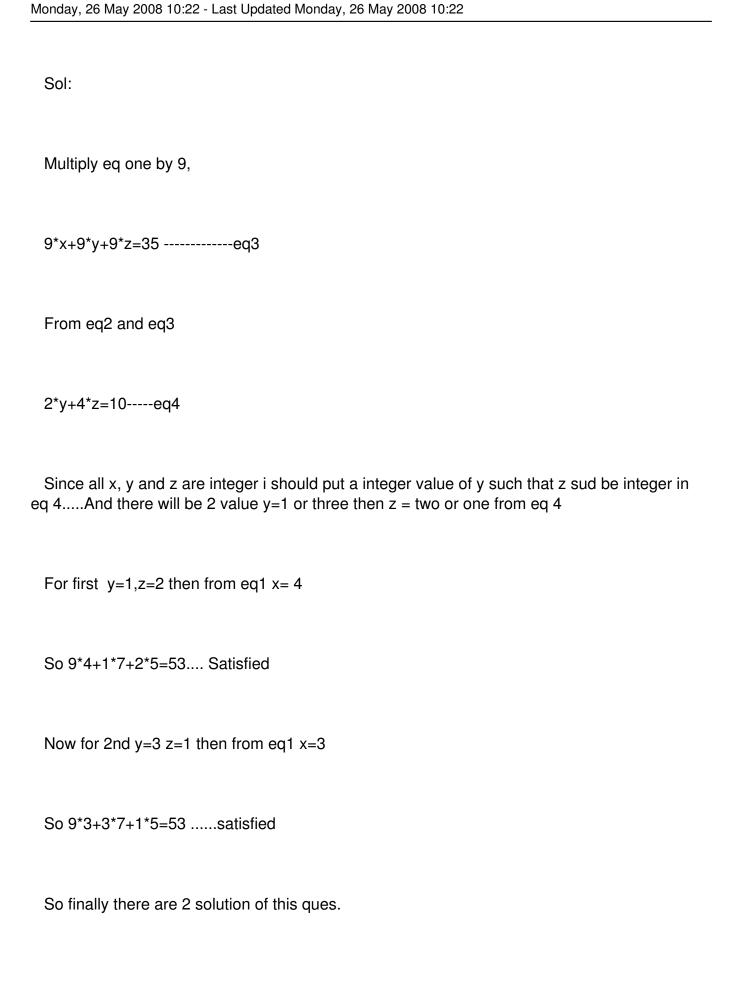
good days means --- nine fishes so 53/9=4(remainder=17) if u presume five then there is no chance for bad days.

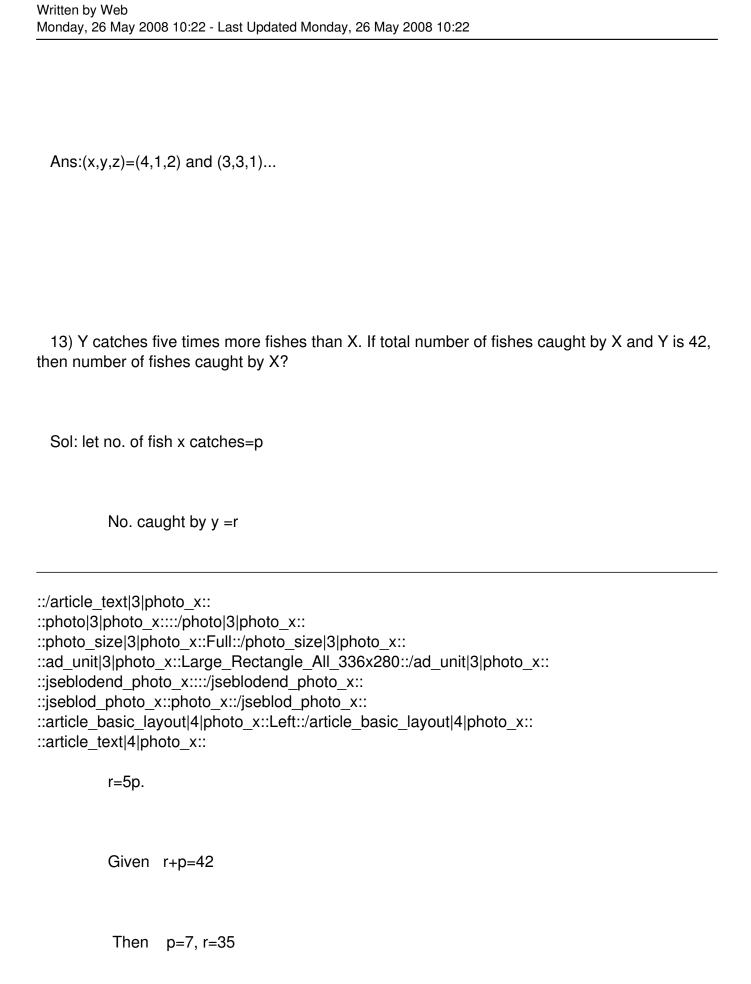


fair days means ----- seven fishes so remaining 17 --- 17/7=1(remainder=10) if u presume two then there is no chance for bad days.

bad days means -----5 fishes so remaining 10---10/5=2days.

Ans: four good, one fair, 2bad. ==== total seven days.





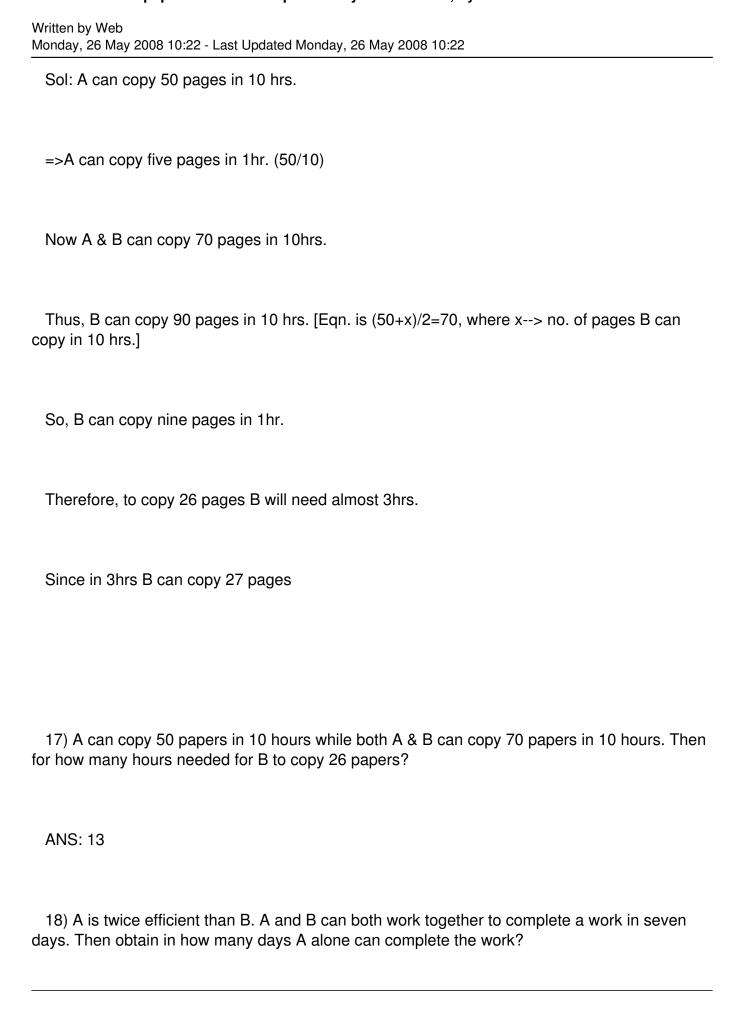
Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

14) 3 companies are working independently and receiving the savings 20%, 30%, 40%. If the companies work combine, what will be their net savings?
Sol: Suppose total income is 100
So amount x is getting is 80
y is 70
z =60
Total=210
But total money is 300
300-210=90
So they are getting 90 rs less
90 is 30% of 300 so they r getting 30% discount

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Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 15) The ratio of incomes of C and D is 3:4.the ratio of their expenditures is 4:5. Find the ratio of their savings if the savings of C is 1 fourths of his income? Sol: incomes: 3:4 Expenditures: 4:5 3x-4y=1/4(3x)12x-16y=3x9x = 16yy = 9x/16(3x-4(9x/16))/((4x-5(9x/16)))Ans: 12/19

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



Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 ::/article text|4|photo x:: ::photo|4|photo x::::/photo|4|photo x:: ::photo size|4|photo x::Full::/photo size|4|photo x:: ::ad unit|4|photo x::Large Rectangle All 336x280::/ad unit|4|photo x:: ::jseblodend photo x:::/jseblodend photo x:: ::jseblod photo x::/jseblod photo x:: ::article basic layout|5|photo x::Left::/article basic layout|5|photo x:: ::article text|5|photo x:: ANS: 10.5 (11) 19) A finish the work in 10 days. B is 60% efficient than A. So how days does B take to finish the work? Ans: 100/6 (4 days) 20) A finishes the work in 10 days & B in eight days individually. If A works for only six days then how many days should B work to complete A's work? Ans: 3.2 days (4 days) 21) A man, a woman, and a child can do a piece of work in six days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the identical work?

Ans: 16

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22
22) If 20 men take 15 days to complete a job, in how many days can 25 men finish that work?
Ans. 12 days
23) 1 fast typist kind a few matter in 2hr and a different slow typist kind the identical matter in 3hr. if both do combine in how much time they will finish.
Ans: 1hr 12min
24) A man shapes three cardboards in 50 minutes, how many kinds of cardboard does he shape in five hours?
Ans: 18cardboards
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Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 ::jseblodend photo x::::/jseblodend photo x:: ::jseblod photo x::/jseblod photo x:: ::article basic layout|6|photo x::Left::/article basic layout|6|photo x:: ::article text|6|photo x:: 25) A work is done by 2 people in 24 min. 1 of them can do this work a lonely in 40 min. how much time needed to do the identical work for the 2nd person. Sol: (A+B) can do the work in = 1/24 min. A alone can do the identical work in = 1/40 min. B alone can do the identical work in = (A+B)'s – A's = 1/24 - 1/40 = 1/60=> B can do the identical work in = 60 min Ans: 60 min 26) A can do a piece of work in 20 days, which B can do in 12 days. In nine days B does 3/4 of the work. How many days will A take to finish the remaining work? 27) Anand finishes a work in seven days; Bittu finishes the identical job in eight days and Chandu in six days. They take turns to finish the work. Anand on the 1st day, Bittu on the 2nd and Chandu on the 3rd day and then Anand again and so on. On which day will the work get over? A) third b) sixth c) ninth d) 7th

28) three men finish painting a wall in eight days. 4 boys do the identical job in seven days. In

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22	
how many days will two men and two boys working together paint 2 such walls of the identical size?	
A) six 6/13 days	
B) three 3/13 days	
C) nine 2/5 days	
D) 12 12/13 days	
29) what's the ans for that?	
A, B and C are eight bit no's. They are as follows:	
A -> one 1 0 0 0 one 0 1	
B -> 0 0 one 1 0 0 one 1	
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Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 ::photo|6|photo_x:::/photo|6|photo x:: ::photo size|6|photo x::Full::/photo size|6|photo x:: ::ad unit|6|photo x::Large Rectangle All 336x280::/ad unit|6|photo x:: ::jseblodend photo x:::/jseblodend photo x:: ::jseblod photo x::photo x::/jseblod photo x:: ::article basic layout|7|photo x::Left::/article basic layout|7|photo x:: ::article text|7|photo_x:: $C \rightarrow 0$ 0 one 1 one 0 one 0 (-=minus, u=union) Find ((A - C) u B) = ?Sol: We have to obtain (A-C) UB To obtain A-C, We will obtain 2's compliment of C and them add it with A, That will provide us (A-C) 2's compliment of C=1's compliment of C+1 =11000101+1=11000110 A-C=11000101+11000110

=10001001

Now (A-C) U B is .OR. Logic operation on (A-C) and B

20 / 78

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

10001001 .OR. 00110011

The ans is = 10111011,

Whose decimal equivalent is 187.

30) A = 10010001 B = 01101010 C = 10010110(AuB)nC =? [(A union B) intersection C =?]

31) A =0 0 0 0 one 1 one 1

B = 0 0 one 1 0 0 one 1

C =0 one 0 one 0 one 0 1

(AUB) n C obtain the 4th row, having the bit trend as an integer in an 8-bit computer, and express the ans in its decimal value.

Ans: 29

32) A, B and C are eight bit nos. They are as follows:
A one 1 0 one 1 0 one 1
B 0 one 1 one 1 0 one 0
C 0 one 1 0 one 1 0 1
Find ((A-B) u C)=?

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

Hint: 109 A-B is {A} - {A n B}

Ans: 0 one 1 one 1 one 1 one (DB)

33) If A, B and C are the mechanisms used separately to decrease the wastage of fuel by 30%, 20% and 10%. What will be the fuel economy if they were used combined.

Ans: 20%

34) In the class of 40 students, 30 speak Hindi and 20 speak English. What is the least possible number of students who speak both the languages?

(a) five (b) 20 (c) 15 (d) 10 (e) 30

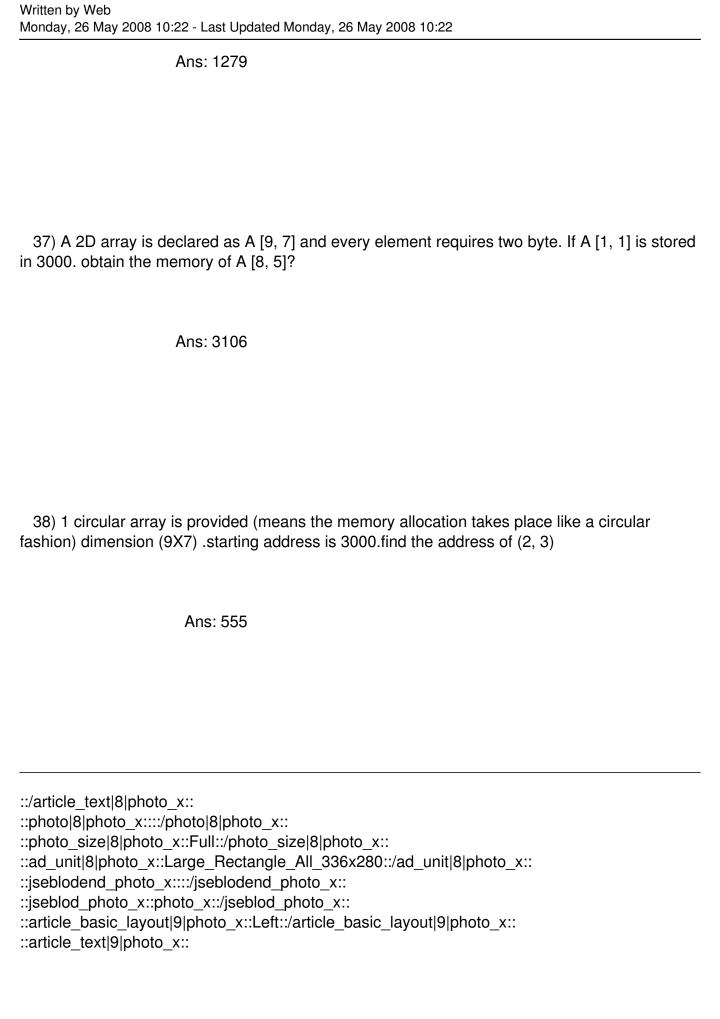
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Written by Web

address of (5, 7) is -----

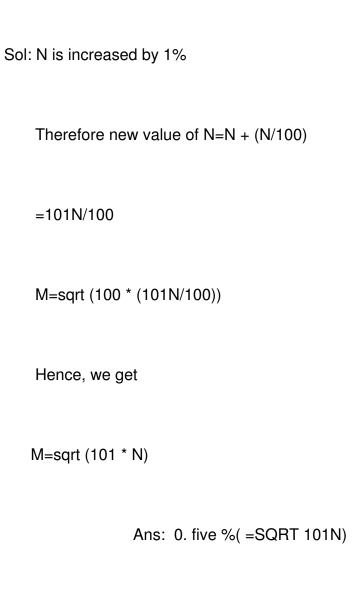
Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 35) In a two-dimensional array, X (9, 7), with every element occupying four bytes of with the address of the 1st element X (1, 1) is 3000, obtain the address of X (8, 5). Sol: [HINT~ Formula=Base Add + Byte reqd {N (i-1) + (j-1)} Where, Base Add=3000; Byte reqd=4; N=no of columns in array=7; i=8; j=5;IN ROW MAJOR ORDER] Ans: 3212

36) If the vertex (5, 7) is placed in the memory. 1st vertex (1, 1)'s address is 1245 and then



Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

39) The size of a program is N. And the memory occupied by the program is provided by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?



40) A bus started from bus stand at 8.00a m and after 30 min staying at destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus 50 percent fast speed. At what time it retur4ns to the bus stand.

Sol: (this is the step by step solution :)

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

A bus cover 27 mile with 18 mph in =27/18= one hour 30 min.
And it wait at stand =30 min.
After this speed of return increase by 50% so 50% of 18 mph=9mph
Total speed of returning=18+9=27
Then in return it take 27/27=1 hour
Then total time in journey=1+1:30+00:30 =3 hour
So it will come at 8+3 hour=11 a.m.
So Ans==11 a.m
41) A Flight takes off at two A.M from northeast direction and travels for 11 hours to reach the destination which is in North West direction. provided the latitude and longitude of source and destination. obtain the local time of destination when the flight reaches there?
Ans: seven AM or 1.00 PM

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

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

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

(Hint: Every one deg longitude is equal to four minutes. If west to east add time else subtract time)

Ans: 8:00

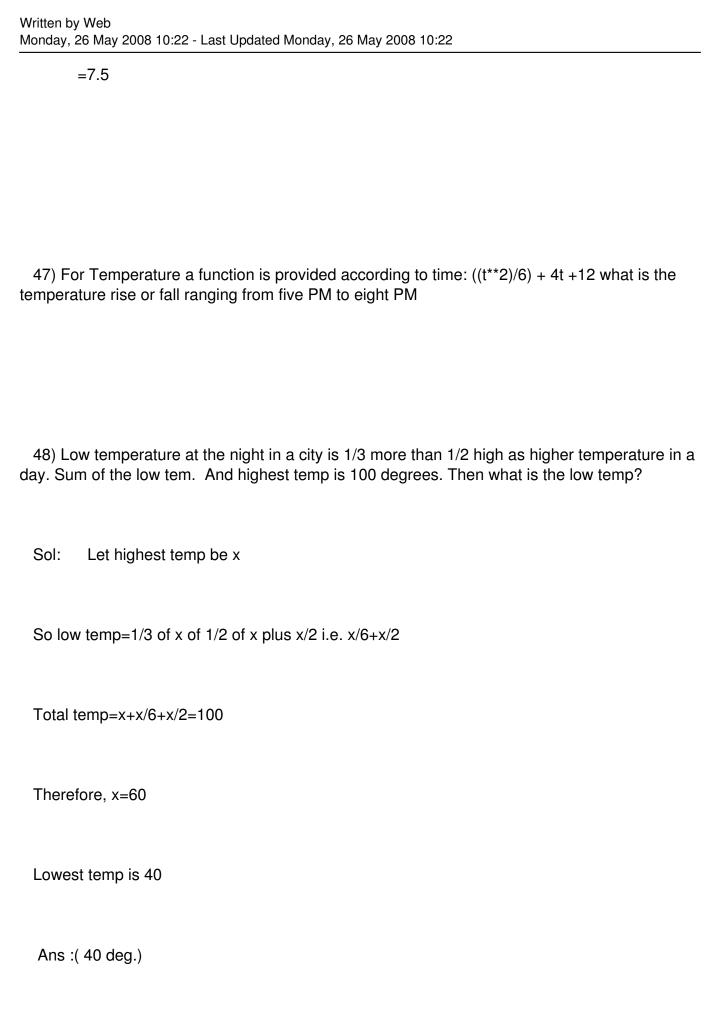
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43) A moves three kms east from his starting point. He then travels five kms north. From that point he moves eight kms to the east. How far is A from his starting point?

Ans: 13 kms

44) A plane moves from 9°N40°E to 9°N40°W. If the plane begins at 10 am and takes eight hours to reach the destination, obtain the local arrival time.

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22
45) In Madras , temperature at noon varies according to $-t^2/2 + 8t + 3$, where t is elapsed time. obtain how much temperature more or less in 4pm to 9pm. (May be we can solve it by Definite Integration. Check any way)
Ans: at nine pm 7.5 more or 385.8 (DB)
46) For Temperature a function is provided according to time: $((t^{**}2)/6) + 4t + 12$ what is the temperature rise or fall ranging from 4.AM TO nine AM
Sol: In equation first put t=9,
We will get 34.5 (1)
Now put t=4,
We will get 27(2)
So Ans=34.5-27



Written by Web	
Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:	:22

49) A person had to multiply 2 numbers. Instead of multiplying by 35, he multiplied by 53and the product went up by 540. What was the raised product?

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a) 780

b) 1040

c) 1590
```

Sol: x*53-x*35=540=> x=30 therefore, 53*30=1590

Ans: 1590

d) 1720

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

50) How many positive integer solutions does the formula 2x+3y = 100 have?	
a) 50	
b) 33	
c) 16	
d) 35	
Sol: provided 2x+3y=100, take l.c.m of 'x' coeff and 'y' coeff i.e. l.c.m of 2,3 ==6then divide 100 with six , which turns out 16 hence ans is 16short cut formula constant / (l.cm of x coeand y coeff)	
51) The total expense of a boarding house is partly fixed and partly variable with the numb of boarders. The charge is Rs.70 per head when there are 25 boarders and Rs.60 when the are 50 boarders. obtain the charge per head when there are 100 boarders.	
a) 65	
b) 55	

TCS Whole Testpaper Placement Paper 24 May 2008 LBRCE, mylavaram Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 c) 50 d) 45 Sol: let a = fixed cost and k = variable cost and n = number of boardersTotal cost when 25 boarders c = 25*70 = 1750 i.e. 1750 = a + 25kTotal cost when 50 boarders c = 50*60 = 3000 i.e. 3000 = a + 50kSolving above two eqns, 3000-1750 = 25k i.e. 1250 = 25k i.e. k = 50Therefore, substituting this value of k in either of above two eqns we get a = 500 (a = 3000-50*50 = 500 or a = 1750 - 25*50 = 500)So total cost when 100 boarders = c = a + 100k = 500 + 100*50 = 5500

So cost per head = 5500/100 = 55

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22	
52) Amal bought five pens, seven pencils and four erasers. Rajan bought six pens, eight erasers and 14 pencils for an amount which was half more than what Amal had paid. What % of the total amount paid by Amal was paid for pens?	
a) 37.5%	
b) 62.5%	
c) 50%	
d) None of these	
Sol: Let, five pens + seven pencils + 4 erasers = x rupees	
So 10 pens + 14 pencils + eight erasers = 2*x rupees	
Also mentioned, six pens + 14 pencils + eight erasers = 1.5*x rupees	
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So
$$(10-6)$$
 = four pens = $(2-1.5)$ x rupees

So four pens = 0.5x rupees => eight pens = x rupees

So five pens = 5x/8 rupees = 5/8 of total (note x rupees is total amt paid by

Amal) i.e. 5/8 = 500/8% = 62.5%

Ans: 62.5%

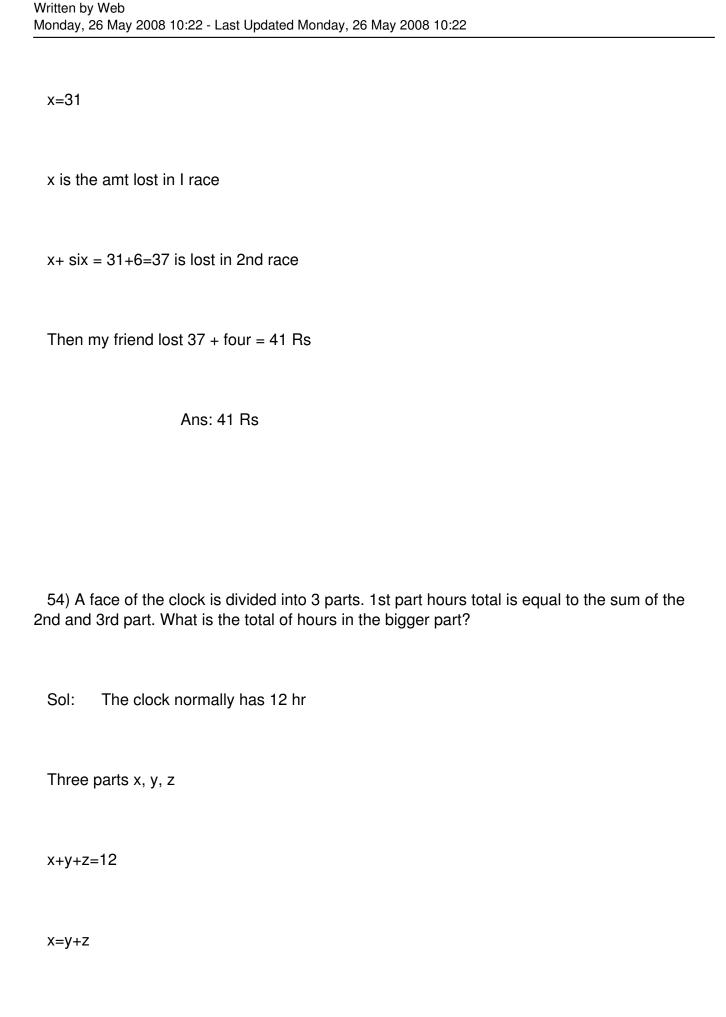
53) I lost Rs.68 in 2 races. My 2nd race loss is Rs.6 more than the 1st race. My friend lost Rs.4 more than me in the 2nd race. What is the amount lost by my friend in the 2nd race?

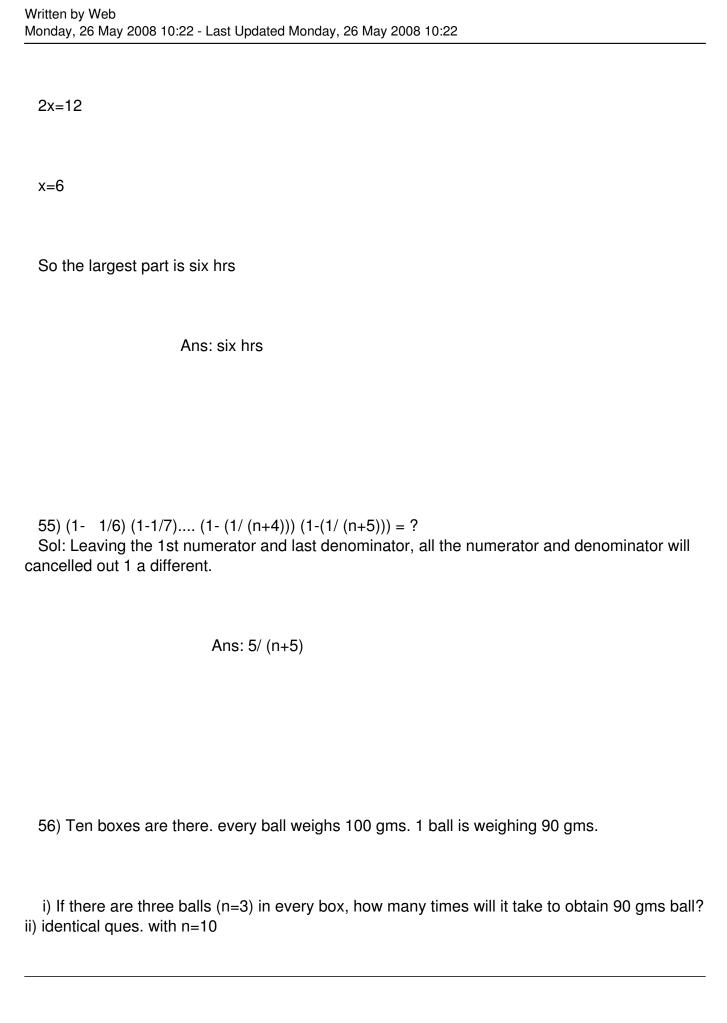
Sol:
$$x + x + 6 = rs 68$$

$$2x + six = 68$$

$$2x = 68-6$$

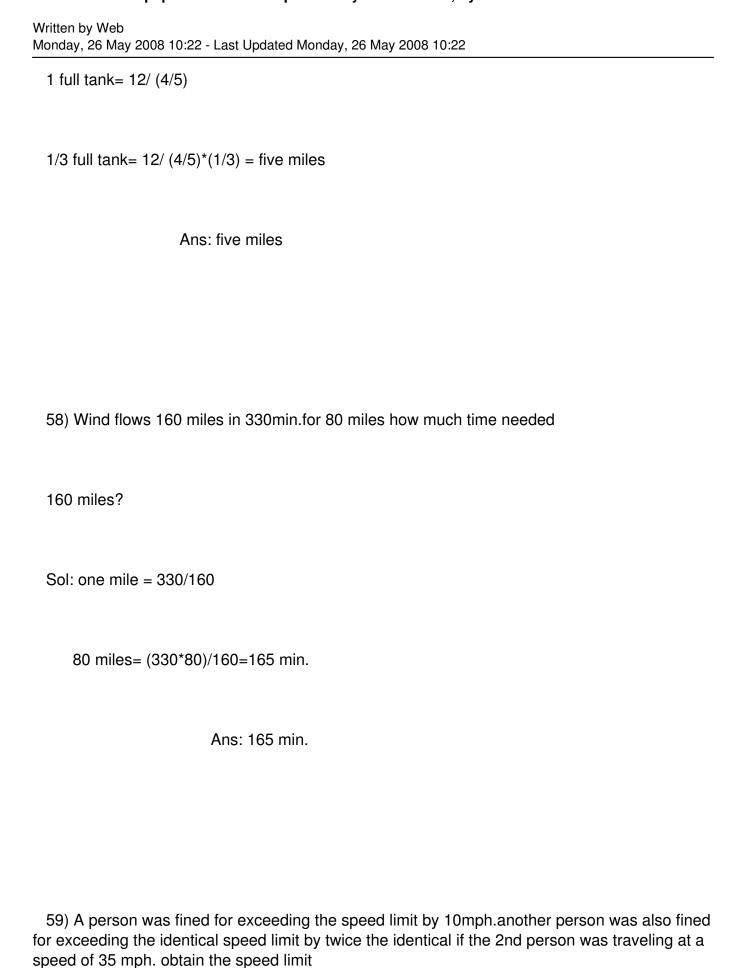
$$2x = 62$$

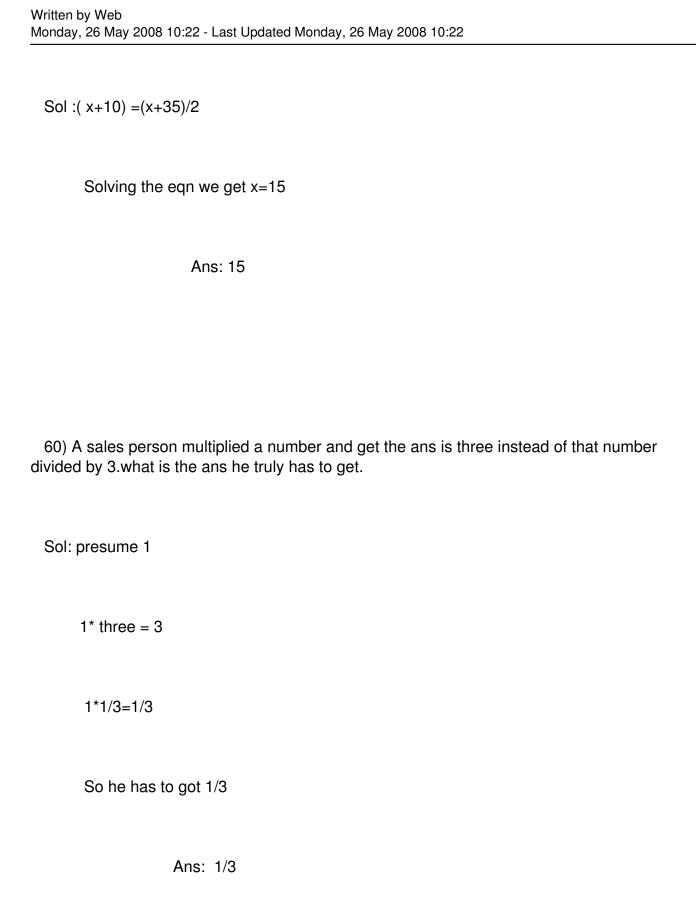




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Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

61) The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

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Ans: 30 milliseconds

62) A person who decided to go weekend trip should not exceed eight hours driving in a day avg. speed of forward journey is 40 mph due to traffic in Sundays the return journey avg. speed is 30 mph. How far he can choose a picnic spot.

Ans: ranging from 120 and 140 miles

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 63) Car is filled with 4 and half gallons of oil for full round trip. Fuel is taken 1/4 gallons more in going than coming. What is the fuel consumed in coming up. Sol: Let fuel consumed in coming up is x. Thus formula is: x+1.25x=4.5Ans: 2gallons 64) 40% employees are male if 60% of supervisors are male so for 100% is 26.4%so the probability is Ans: 0.264 65) Gavaskar avg. in 1st 50 innings was 50. After the 51st innings his avg. was 51 how many runs he made in the 51st innings Sol: 1st 50 ings.- run= 50*50=2500

51st ings. - Avg 51. So total run =51*51=2601.

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

So run scored in that ings=2601-2500=101 runs.

Ans: 101 runs

66) Hansie made the subsequent amounts in 7 games of cricket in India: Rs.10, Rs.15, Rs.21, Rs.12, Rs.18, Rs.19 and Rs.17 (all figures in crores of course). Find his avg. earnings.

Ans: Rs.16 crore

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67) avg. of five numbers is -10 sum of three numbers is 16, what is the avg. of other 2 numbers?

Ans: -33

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

Ans: 5.

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68) If A, B and C are the mechanisms used 30%, 20% and 10%. What will be the fuel econombined.	separately to decrease the wastage of fuel by nomy if they were used Ans: 20%
69) In 80 coins 1 coin is counterfeit what is counterfeit coin	minimum number of weighing to obtain out
Sol: the minimum number of weightings nee	eded is just 5.as shown beneath
(1) 80->30-30	
(2) 15-15	
(3) 7-7	
(4) 3-3	
(5) 1-1	

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

70) two oranges, three bananas and four apples cost Rs.15. three oranges, two bananas, and one apple costs Rs 10. What is the cost of three oranges, three bananas and three apples?

Sol: 2x+3y+4z=15

3x+2y+z=10

Adding

5x+5y+5z=25

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

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So for three orange, three bananas and three apples require 15Rs.

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

Ans: 15

Written by Web							
Monday, 26 May	2008 10:2	22 - Last U	pdated M	/londay,	26 May	2008	10:22

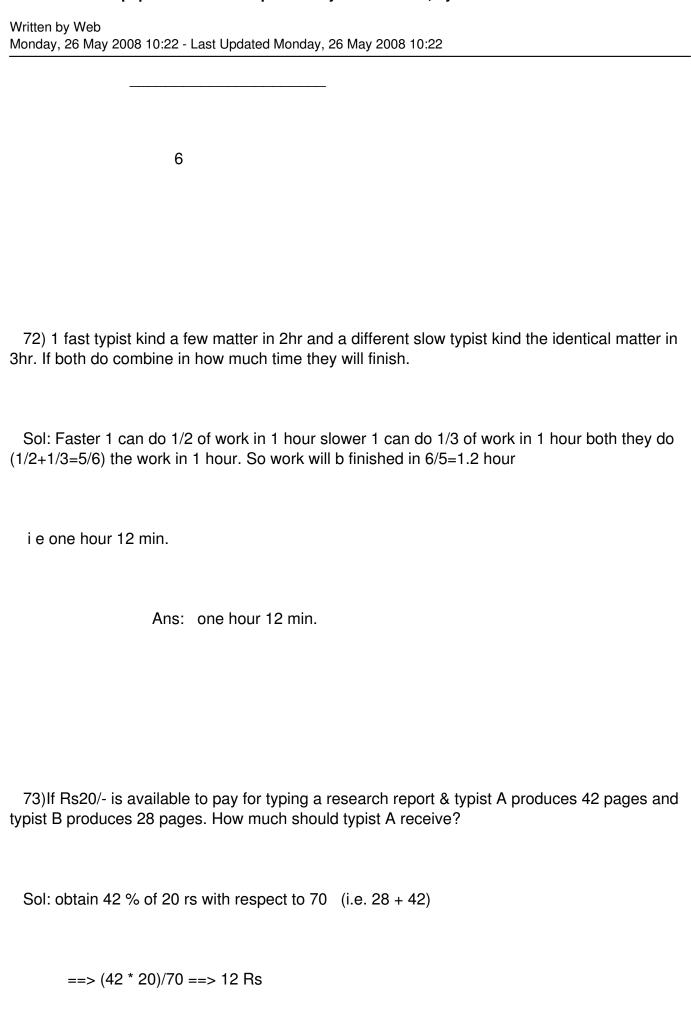
71) In 8*8 chess board what is the total number of squares refers odele discovered that there are 204 squares on the board .We obtained that you would add the various squares

$$=$$
 one + four + nine + 16+ 25 + 36 + 49 + 64. $=$ 204

Also in 3*3 tic tac toe board what is the total no of squares

If you get 100*100 board just use the formula the formula for the sum of the 1st n perfect squares is

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



Ans: 12 Rs

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74) In a few game 139 members have participated every time 1 fellow will get bye what is the number of matches to select the champion to be held?

Ans: 138 matches

(Explanation: since 1 player gets a bye in every round, he will reach the finals of the tournament without playing a match.

Therefore 137 matches should be played to determine the 2nd finalist from the remaining 138 players (excluding the first player)

Therefore to determine the winner 138 matches should be played.)

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

75) 1 RECTANGULAR PLATE WITH LENGTH 8INCHES, BREADTH 11 INCHES AND two INCHES THICKNESS IS THERE.WHAT IS THE LENGTH OF THE CIRCULAR ROD WITH DIAMETER eight INCHES AND EQUAL TO quantity OF RECTANGULAR PLATE?

Sol: Vol. of rect. plate= 8*11*2=176

Area of rod= $(22/7)^*(8/2)^*(8/2) = (352/7)$

Vol. of rod=area*length=vol. of plate

So length of rod= vol of plate/area=176/ (352/7) =3.5

Ans: 3.5

76) 1 tank will fill in six minutes at the rate of 3cu ft /min, length of tank is four ft and the width is 1/2 of length, what is the depth of the tank?

Ans: three ft 7.5 inches

77) A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable beneath water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. obtain the total of laying the cable.

Ans: 1000 (24725 - cost) 20250

Ans: Rs. 22,500 (hint: the plant is on the other side of the plant i.e. it is not on the identical side as the river)

78) The cost of 1 pencil, 2 pens and 4 erasers is Rs.22 while the cost of 5 pencils, 4 pens and 2 erasers is Rs.32. How much will 3 pencils, 3 pens and 3 erasers cost?

Sol :(let x b pencil, y b pen and z b eraser... u get x+2y+4z=22 and 5x+4y+2z=32 add 6x+6y+6z=54 div by two you get 27)

Ans: 27

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

Sol: Assume he started at 1:00, so at 1:30 he met cart .He returned home at 2:00.so it took

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

him one hour for the total journey. By doing this he saved 20 min. So the true time if the plane is not late is one hour and 20 min. So the true time of plane is at 1:40. The cart traveled a time of 10 min before it met him. So the plane is 10 min early.

Ans: 10 min

80) 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 five o'clock. Mangaram also reaches at the identical time. 1 day Ram singh started early from his office and came to the station at four o'clock. Not wanting to wait for the car he begins walking home. Mangaram begins at normal time, picks him up on the way and takes him back house, half an hour early. How much time did Ram singh walked?

81) two trees are there. 1 grows at 3/5 of the other. In four years total growth of the trees is eight ft. what growth will smaller tree have in two years.

Sol: THE BIG TREE GROWS 8FT IN four YEARS=>THE BIG TREE GROWS 4FT IN two YEARS.WHEN WE DIVIDE 4FT/5=.8*3=>2.4

four
$$(x + (3/5) x) = 88x/5 = 2x = 5/4$$

After two years x = (3/5)*(5/4)*2 = 1.5 (less than two feet)

82) There is a 6 digit code. Its 1st 2 digits, multiplied by three provide all ones. And the next 2 digits multiplied by six provide all twos. Remaining 2 digits multiplied by nine provide all threes. Then what is the code?

Sol: Assume the digit xx xx xx (six digits)

First 2 digit xx * 3=111

xx = 111/3 = 37

(First 2 digits of one is not divisible by 3 so we can use 111)

Second 2 digit xx*6=222

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xx = 222/6 = 37

(First 2 digits of two is not divisible by 6 so we can use 222)

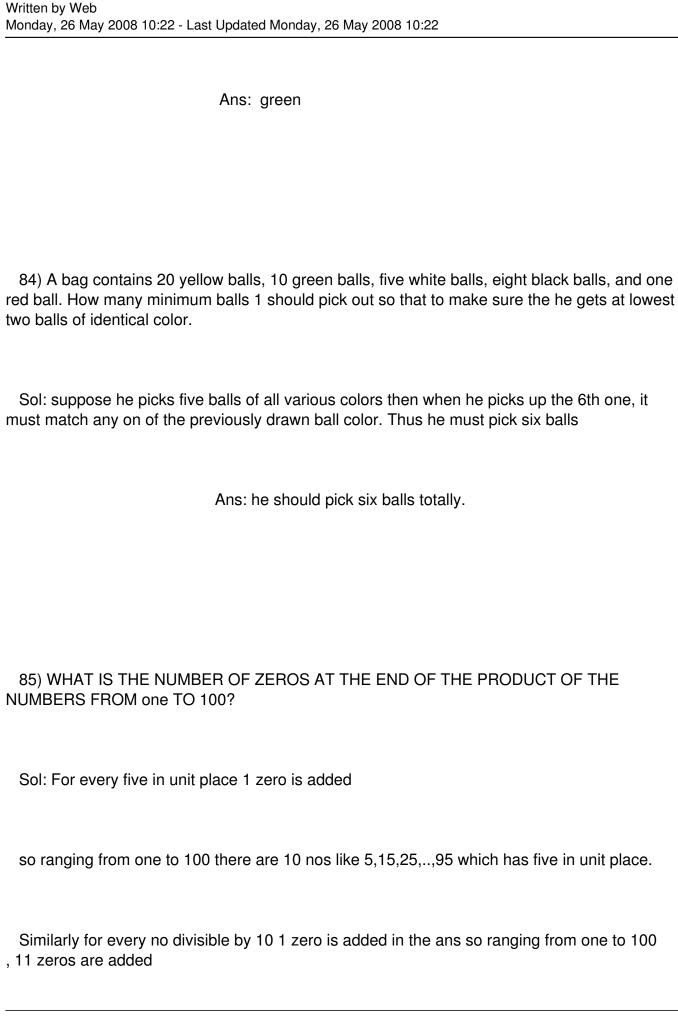
Third 2 digit xx*9=333

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Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22 xx = 333/9 = 37(First 2 digits of three is not divisible by 9 so we can use 333) 83) There are four balls and four boxes of colors yellow, pink, red and green. Red ball is in a box whose color is identical as that of the ball in a yellow box. Red box has green ball. In which box you obtain the yellow ball? Sol: Yellow box can have either of pink/yellow balls. if we put a yellow ball in " yellow" box then it would imply that " yellow" is also the color of the box which has the red ball(because according two d question,d box of the red ball n the ball in the yellow box have identical color) Thus this possibility is ruled out... Therefore the ball in yellow box must be pink, hence the color of box contain in red ball is also pink.... =>the box color left out is "green", which is allotted to the only box left, the 1 which

has yellow ball.



Written by Web

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For 25, 50, 75

three extra zeros are added

So total no of zeros are 10+11+3=24

86) There are 2 numbers in the ratio 8:9. If the smaller of the 2 numbers is increased by 12 and the larger number is decreased by 19 thee the ratio of the 2 numbers is 5:9.

Find the larger number?

Sol: 8x: 9x initially

$$8x + 12: 9x - 19 = 5x: 9x$$

$$8x+12 = 5x$$

$$-> x = 4$$

9x = 36	(NOT SURE ABOUT THE ANSWER)
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87) There are 3 various boxes A, B and C. Difference ranging from weights of A and B is three kgs. And ranging from B and C is five kgs. Then what is the maximum sum of the differences of all possible combinations when 2 boxes are taken every time

Sol:
$$A-B=3$$

$$B-c=5$$

A-c = 8 so sum of diff =
$$8+3+5 = 16 \text{ kgs}$$

88) A and B are shooters and having their examination. A and B fall short of 10 and two shots respectively to the qualifying mark. If every of them fired at lowest 1 shot and even by adding their total score together, they fall short of the qualifying mark, what is the qualifying mark?

Sol: Because every had at lowest one shot done so 10 + one = 11

And nine
$$+$$
 two $= 11$

So the ans is 11

89) A, B, C, and D tells the subsequent times by looking at their watches. A tells it is three to 12. B tells it is three past 12. C tells it is 12:2. D tells it is half a dozen too soon to 12. No 2 watches show the identical time. The difference ranging from the watches is 2,3,4,5 respectively. Whose watch indicates maximum time?

Sol: A indicates 11:57, B indicates 12:03, C indicates 12:02 and D indicates 11:06 therefore,

Max time is for B

90) Falling height is proportional to square of the time. 1 object falls 64cm in 2sec than in 6sec from how much height the object will fall.

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

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Now, the falling height is 64cm at 2sec

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

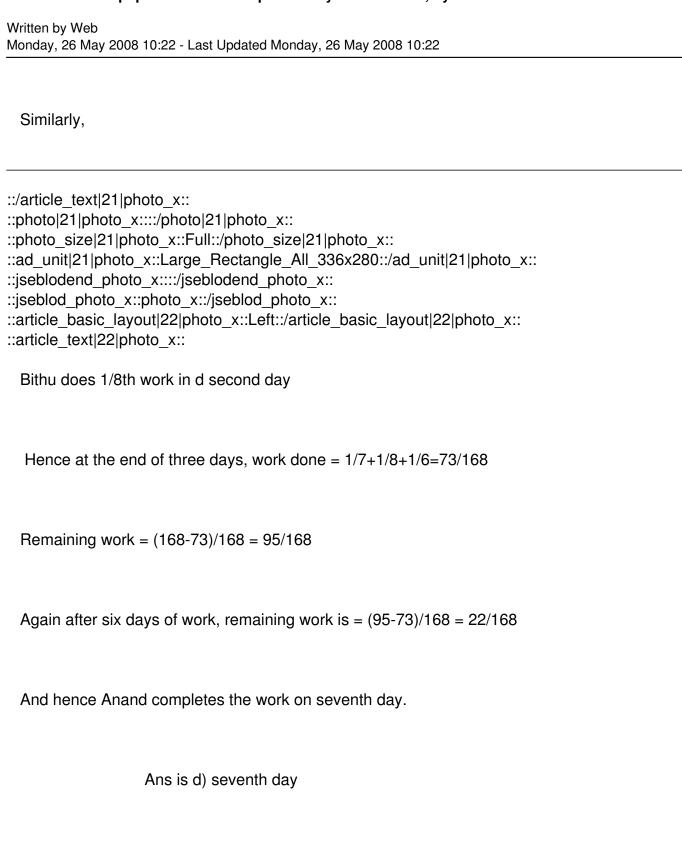
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So, the proportional constant is=64/ (2*2) =16;
So, at 6sec the object fall maximum (16*6*6) cm=576cm;
Now, the object may be situated at any where.
If it is>576 only that time the object falling 576cm within 6sec .Otherwise if it is situated<576 then it fall only that height at 6sec.
91) Last year pandit was thrice his sister's age. Next year he is only twice her age. After five years what is pandit's age. a) two b) 12 c) 11 d) 14
Ans: b
92) Jalia is twice older than qurban. If jalia was four years younger, qurban was three years older their diff. ranging from their ages is 12 years what is the sum of their ages
a) 67 b) 57 c) 36 d) none
Ans: b

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

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93) Fathers age is five times his son's age. four years back the dad was nine times older than son. obtain the fathers' current age.
Ans. 40 years 94) Joe's dad will be twice his age six years from now. His mother was twice his age two years before. If Joe will be 24 2 years from now, what is the difference ranging from his father's and mother's age?
a) four b) six c) eight d) 10
95) Anand finishes a work in seven days; Bittu finishes the identical job in eight days and Chandu in six days. They take turns to finish the work. Anand on the 1st day, Bittu on the 2nd and Chandu on the 3rd day and then Anand again and so on. On which day will the work get over?
a) 3rd
b) 6th
c) 9th
d) seventh
In d first day Anand does 1/7th of total work



96) If TAFJHH is coded as RBEKGI then RBDJK can be coded as ------

Ans: qcckj 97) BFGE CODED AS CEHD THEN CODE PVHDJ

Ans: QUICK

98) obtain the no. of Y's followed by W but that is not followed by Z.

(Hint: in the 1st word, the alphabets of the jumbled 1 are 3 alphabets after the corresponding alphabet in the word SURMISE. S = V-3, similarly obtain the 1 for SHDVD)

100) If DDMUQZM is coded as CENTRAL then RBDJK can be coded as ----Ans. QCEIL

(Hint: Write both the jumbled and the coded word as a table, obtain the relation ranging from the corresponding words, i.e. C= D-1, N=M+1 & so on)

101) In the word ECONOMETRICS, if the 1st and second, 3rd and forth, forth and fifth, 5th and 6th words are interchanged up to the last letter, what would be the 10th letter from right?

Ans. word is CENOMOTEIRSC 10th word is R

102) If D_MUQZM is coded as CENTRAL then RBDJK can be coded as

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Ans: Rs. 22,500 (hint: the plant is on the other side of the plant i.e. it is not on the

identical side as the river)

61 / 78

Written by Web Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

107) The cost of 1 pencil, 2 pens and 4 erasers is Rs.22 while the cost of 5 pencils, 4 pens and 2 erasers is Rs.32. How much will 3 pencils, 3 pens and 3 erasers cost?

Ans: 27

108) A shopkeeper bought a watch for Rs.400 and sold it for Rs.500. What is his profit percentage?

Ans. 25%

109) What percent of 60 is 12?

Ans. 20%

110) 3 men goes to a hotel to stay, the clerk says \$30 per room/day so all the 3 plans to stay in 1 room so every pays \$10. After a few time the clerk realizes that he made a mistake of collecting \$30 but the room cost only \$25, there fore he decides to return \$5 to them so he calls the room boy and provide him \$5 asking him to return. The room boy keeps \$2 with him and he returns only \$3(\$1 for each). Now Totally all have paid \$9 each(\$27)+room boy \$2 which is equal to \$27. where did \$1 go, who has made the mistake?

111) 2 pencils cost eight cents. Then five pencils cost?

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Ans :( 20 cents)
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112)Which is more economical of the subsequent a)2kg -- 30/- b)8kg -- 160/- c)5kg -- 80/-

113)Satish earns 240 weekly.12% of big amount + earning weekly = 540 what is the big amount a)3200 b)3600 c)2500 d)1000

Ans: c

114) Bhanu spends 30% of his income on petrol on scooter. ¼ of the remaining on house rent and the balance on food. If he spends Rs.300 on petrol then what is the expenditure on house rent? a) Rs.525 b) Rs.1000 c) Rs.675 d) Rs.175

Ans: 175

115) A sporting goods store ordered an equal number of white and yellow balls. The tennis ball company delivered 45 extra white balls, making the ratio of white balls to yellow balls 1/5: 1/6. How many white tennis balls did the store originally order for?

Written by Web

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

a) 450 b) 270 c) 225 d) None of these

Ans: 180

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

a) 12, six b) 11, six c) 12, five d) 11, 5

117) Match the following:

Male - Boy
 Square - Polygon
 Roof - Building
 Mushroom - Vegetables

---> a. A kind of
---> b. A part of
---> c. Not a kind of
---> d. A superset of

Ans: 1- d, 2- a, 3- b, 4- c

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118) Match the subsequent.

Brother - sister ---> a. Part of
 Alsatian - dog ---> b. Sibling
 Sentence - snippet ---> c. kind of

4. Car - steering ---> d. Not a kind of

Ans. 1-b, 2-c, 3-a, 4-d

Written by Web				
Monday, 26 May 2008 1	10:22 - Last Updat	ted Monday, 26	May 2008	10:22

119) Match the subseque	nt
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1) Scoo	ter	Automobile	A. A PART OF
., 0000	LO:	, (0(0)1100110	, , ,

Ans. 1-b, 2-a, 3-d, 4-c

120) What is the largest prime number stored in a-

121) What is the max three digit Prime no?

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ANS=997

122)
$$G(0) = -1$$
, $G(1) = 1$, $G(N) = G(N-1) - G(N-2)$, $G(5) = ?$

Ans - 2

123) G (0) =1 G (1) = -1 IF G (N) =
$$2^*$$
 (G (N-1)) – 3(G (N-2)) Then what is the value of

G (4)?

124) If f(0) = 1 and f(n) = f(n-1)*n, obtain the value of f(4).

Ans: 24

125) If
$$g(0) = g(1) = 1$$
 and $g(n) = g(n-1) + g(n-2)$ obtain $g(6)$;

126) What is the power of 2? a. 2068 b.2048 c.2668

Ans: 2048

127) eight to the power of x is 32, what is the value of x?

128) Power of four Ans-4096

129) Which 1 will be the exact power of 3?
(i) 2768 (ii) 2678 (iii) 2187

130) Complete the series—

a)3,8,a,24,b,48,63 [ANS~ a=15, b=35]

[HINT~DIFFERENCE IS 5, 7, 9, 11, 13, 15]

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Written by Web
Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22
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B)26,19,17,13,11, ,8,7 [ANS=9]
```

[HINT~26,17,11,8 DECREASING LIKE 9,6,3 & 19,13,9,7 DECREASING

LIKE 6, 4, 2]

c)9,10,11,13,15, ,21,28 [ANS=19]

[HINT~9, 11, 15, and 21 INCREASING LIKE 2, 4, six & 10,13,19,28 INCRESING

LIKE 3, 6, and 9]

D) 4, -5, 11, -14, 22, --- [ANS= -27]

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Written by Web

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

131) Number of faces, vertices and edges of a cube

ANS: 6,8,12

132) obtain the value of—

- a) @@+25-++@16, where @ denotes"square" & + denotes "square root". [ANS=621]
- b) \$%\$6-%\$%6, where \$ means "tripling" & % means "change of sign". [ANS= -72]
- c) % # % six + # %# 6, % means "doubling" & # mean "reciprocal".
- 132) choose odd 1 out
- 1) LINUX, WINDOWS 98, SOLARIS, SMTP (ANS: SMTP)
- 2)MVS
- 3).JAVA b) LISP c) Smaltalk d)Eiffle Ans: LISP (All other languages are OOPS)
- 4)1.http 2.arp 3.snmp 4.sap Ans:sap
- 5)1.linux 2.windows NT 3.sql server 4.Unix Ans: Sql server
- 6)1.SAP 2.ARP 3.WAP 4.TCP IP
- 7)a. Oracle b. Linux c. Ingress d. DB2
- a. SMTP b. WAP c. SAP d. ARP Ans:SAP 9)a. WAP b. HTTP c. BAAN d. ARP Ans:Baan
- 10)a. LINUX b. UNIX c. SOLARIS d. SQL SERVER Ans:SQL SERVER
- 11)a. SQL b. DB2 c. SYBASE d. HTTP
 12)a. Oracle b. Linux c. Ingress d. DB2

 Ans: HTTP
 ANS:LINUX

- 133) obtain the singularity matrix from a provided set of matrices? (Hint det (A) ====0)
- 134) Which of the subsequent are orthogonal pairs?

Ans: a, c

135) (a) 2+3i (b) 1+i (c) 3-2i (d) 1-7i .Find which of the above is orthogonal.

Ans: a, c

136) Sum of slopes of two perpendicular st. lines is provided. obtain the pair of lines from the provided set of choices which satisfy the above condition?

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137) If Rs.1260 is divided ranging from A, B and C in the ratio 2:3:4, what is C's share?

Ans: Rs. 560

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Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

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

a) 2400 b) 2800 c) 3200 d) 3800

139) Complete the series.

```
1) 3, 8, --, 24, --, 48, 63. Ans: 15, 35
```

- 2) Complete the series. 4, -5, 11, -14, 22, --- Ans 27
- 3) SERIES: 2, 7, 24, 77, ----- (238) or (240)
- 4)77, 49, 36, 18,? Ans: eight (7*7=49) (4*9=36) (3*6=1 (1*8=
- 5) series: five six seven eight 10 11 14?? Ans.15 or 18
- 6)15 14 12 11?? nine eight Ans.1
- 7) what is the twelfth term of the series 2, 5, eight ... Ans. 35

8)58, 27, 12, x, 2, 1. obtain x.

9)7, 9,13,_,27,37. Ans-19

10)2, 5, ___, 19, 37, 75 Ans: 9

11) Complete the sequence 9, 10,11,13,15, ___, 21, 28.

140) UNITS

- 1) (Momentum*Velocity)/ (Acceleration * distance) obtain units. Ans: mass
- 2) (energy * time * time)/ (mass * dist) = distance
- 3) (momentum * velocity)/ (force * time) = velocity
- 4) obtain the physical volume in units from the equation:

(Force*Distance)/ (Velocity*Velocity) Ans. Ns2/m

5) obtain the physical volume represented by

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MOMENTUM *VELOCITY] / [LENGTH * ACCELERATION]?

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Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 200	8 10	0:22

141) obtain the outcome of the subsequent _expression if, M denotes modulus operation, R denotes round-off, T denotes truncation:

$$M (373, 5) + R (3.4) + T (7.7) + R (5.8)$$

ANS: 19

142) Which of the subsequent highest Standard deviation

Ans: d

143) 232 expressed in base-5 is

Ans: 1412

144) A building with height D shadow up to G. A neighbor building with what height shadows C feet.

ABCDEFGH

Sol: B Ft. or CD/G

145) In a fraction, if one is added to both the numerator at the denominator, the fraction becomes 1/2. If numerator is subtracted from the denominator, the fraction becomes 3/4. obtain the fraction.

Ans. 3/7

146) The sum of the digits of a 2 digit number is 8. When 18 is added to the number, the digits are reversed, obtain the number?

Ans. 35

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147) What number should be added to or subtracted from every term of the ratio 17:24 so that it becomes equal to one: 2.

Ans. 10 should be subtracted

Section-3 :(Critical Reasoni	ng 12 gues 20 min)
Occilon-5 .(Ontical rieasoni	ng-12 ques 30 min)
Refer GRE BARRONS text	book twelfth Edition model papers.
Madal manay 1, Caa E	Coo C
Model paper 1: Sec - 5	, Sec- 6
Model paper 2: Sec -1	, Sec-6
Model paper 3: Sec -5	, Sec- 6
Model paper 4: Sec -5	Sec-6
Model paper 4. 000 0	, 300 0
Model paper 5: Sec -3	, Sec-7
(Try to Mug up those parts.)	They will provide definitely from those model papers only)

(Be prepare with two core subjects (basics) of u r Branch)

(Be prepare with basics of C and DS and a few basic programs)

	Basic C programs:
Ø	Prime Number
Ø	Sorting Techniques
Ø	Searching techniques
Ø	Factorial using recursion
Ø	Fibonacci series using recursion
Ø	Reverse the string
Ø	Palindrome
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Ø	Armstrong no
Ø	Strong no
Ø	Data structures concept
Ø	Linked list concept
Ø	Stack, queue Algorithms
Managerial Round:	
Ø	Ask to solve any managerial issue regarding
	Time management, Leadership qualities
Ø	Tell about u r self

Monday, 26 May 2008 10:22 - Last Updated Monday, 26 May 2008 10:22

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Ø Tell anything without interruption for five minutes (so be preparing in advance regarding group leader qualities and so on HR Interview: Tell about your self(This include ur name, ur place, ur SSC school name with %, Intermediate college name with %, u r dad ,mother, brother occupations- no need to tell their names, u r role model, ur hobbies, strengths, Area of interest, and u r achievements) Why TCS Ø Ø Tell about your strengths Ø Tell about u r weakness Ø Tell about u r hobbies And so on (Be confident with smiling face)

(If you fail to prepare then prepare to fail)

ALL THE BEST -I WISH YOU HAVE A BRIGHT FUTURE By Anusha.

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