

TCS Question Pattern

1: There is a toy train that can make 10 musical sounds. It makes 2 musical sounds after being defective. What is the probability that same musical sound would be produced 5 times consecutively? (1 of _____) ?

Answer: $1/2 * 1/2 * 1/2 * 1/2 * 1/2 = 1/32$

32 will be the answer.

2: Peter and Paul are two friends. The sum of their ages is 35 years. Peter is twice as old as Paul was when Peter was as old as Paul is now. What is the present age of Peter?

Answer: 20 years.

3: The ages of two friends is in the ratio 6:5. The sum of their ages is 66. After how many years will the ages be in the ratio 8:7?

Answer: 12 years.

4: (There was a long story, I'll cut short it). There are 5 materials to make a perfume: Lilac, Balsalmic, Lemon, Woody and Mimosaic. To make a perfume that is in demand the following conditions are to be followed: Lilac and Balsalmic go together. Woody and Mimosaic go together, Woody and Balsalmic never go together. Lemon can be added with any material. (Actually they had also mentioned how much amount of one can be added with how much quantity of the other, but that's not needed for the question.) All of the following combinations are possible to make a perfume EXCEPT:

- 1) Balsalmic and Lilac
- 2) Woody and Lemon
- 3) Mimosaic and Woody
- 4) Mimosaic and Lilac

Answer: Mimosaic and Lilac.

5: A girl has to make pizza with different toppings. There are 8 different toppings. In how many ways can she make pizzas with 2 different toppings.

Answer: $8 * 7 = 56$

6: A triangle is made from a rope. The sides of the triangle are 25 cm, 11 cm and 31 cm. What will be the area of the square made from the same rope?

Answer: 280.5625

7: What is the distance between the z-intercept from the x-intercept in the equation $ax+by+cz+d=0$. (I do not remember the values of a,b,c,d)

8: An athlete decides to run the same distance in 1/4th less time that she usually took. By how much percent will she have to increase her average speed?

Answer: 33.33%

9: A horse chases a pony 3 hours after the pony runs. Horse takes 4 hours to reach the pony. If the average speed of the horse is 35 kmph, what s the average speed of the pony?

10: There is 7 friends (A1,A2,A3....A7).If A1 have to have shake with all with out repeat. How many hand shakes possible?

11: There are two pipes A and B. If A filled 10 liters in a hour B can fills 20 liters in same time. Likewise B can fill 10, 20, 40, 80,160....if B filled in (1/16) th of a tank in 3 hours, how much time will it take to fill completely?

Answer:7 hours

12: (Keywords): Sports readers,10 tables,4chairs per table, each table has different number of people then how many tables will left without at least one person?

Ans : 6

13: The ages of two friends is in the ratio 5:6. After how many years will the ages be in the ratio 7:8?

Answer: 10 years.

14: What is the distance of the z-intercept from the x-intercept in the equation $ax+by+cz+d=0$. (I do not remember the values of a,b,c,d)

15: An athlete decides to run the same distance in 1/4th less time that she usually took. By how much percent will she have to increase her average speed?

Answer: 33.33%

16. A man whose age is 45 yrs has 3 sons named John,jill,jack. He went to a park weekly twice.he loves his sons very much. On a certain day he find # shopkippers sailing different things. An apple cost 1penny, 2chocolate costs 1penny.& 3 bananas cost 1 penny. He has bought equal no. of apple, chocolate & banana for each son. If the total amount he invest is 7 penny then how many he has bought from each piece for his son?

a)1app,1cho,1 banana

b)1 app,2cho,3 banana

c)1app,2cho,1banana

17. A scientist was researching on animal behavior in his lab. He was very interested in analyzing the behavior of bear. For some reason he travelled 1mile in north direction & reached at north pole.there he saw a bear .he then followed the bear around 1 hr with a speed of 2km/hr in east direction.After that he travelled in south direction & reached at his lab in2 hrs. Then what is the colour of the bear? I think ans is white

a)white b)black c)gray d)brown

18. In a particular city there are 100 homes numbered from 1,2,3.....100. The city was build by a builder from chennai. There was 45 shop in the town which was build by a builder from Mumbai. THE 2nd builder can build the in 1/2 time as compared to 1st builder. If the 2nd builder builds in 15 days,then how many 2's are used by the builder from Chennai in numbering the 100 homes?

a)17 b)18 c)19 ans d) 20 c)19

19. MR Dash has 3 sons whose ages are respectively a, b, c . The grandfather has bought a cycle for the eldest son, mother has bought a bag for the youngest one which cost Rs150/. The sum of two age of the elder son & one son is 15. The difference of age of sons is 3 & 2. Then what is the age of the eldest son?

a)10, b)11, c) 12,d)13

20. We all know that Arya bhatta is the greatest mathematics belongs to india . When his daughter Mayabati was in her teen age he discovered a problem. At that time the age of mayabati is a prime number, let that age is a . After some years her age becomes b . then Arya Bhatta was able to solve that problem with the help of her [daughter](#) mayabati. If $a-b=5$ & product of a & b is 26 then what is the sum of two squares?

A)77 b) 45 c)89 d)67

21. how many 13 digit numbers are possible by using the digits 1,2,3,4,5 which are divisible by 4 if repetition of digits is allowed? **Ans:**5 to the power 12

22. $(40 \times 40 - 40 - 31 \times 31 \times 31) / (40 \times 40 + 40 \times 31 + 31 \times 31) = ?$ a simple calculation

23. $x/2y=2a$, then $2x/x-2ay=?$ (something like this .very easy)

24. A big Question describing a story. After that a number is given eg 2880. by what if we divide the number it'll become a perfect square? **Ans:5**

25. 1st a story. Then a simple ratio problem. The question was if the ratio of age of two persons is 5:6, sum of present age is 33, then in how many years the ratio of their age becomes 7:8?

a)3 b)4 c)5 d)6

26. Mr behera wants to build A house for his wife. In this there are 5 rooms each having equal area. The length of each room is 4m,, breadth is 5 m. the height of the rooms are 2m. if to make a sq meter we need 17 bricks ,then how many bricks are needed to make the floor of a particular room?

27. A very big story. on Tuesday college parking place have only 4wheelers & bicycles, total no of wheels was 182, when what is the possible no of bicycles?

a)20 b 19 c 18 d 17

28. Simple question but big one on average age. sth like a, b, c weighed separately 1st a, b, c , then a & b , then b & c , then c & a at last abc , the last weight was 167, then what will be the avg weight of the 7 weight?

29. Arrange the jumbled letters to make a perfect word RGTEI (sth like this). Find to which category it belong? (not so easy, I was but able to solve the problem .the number of the question was 34)

A)town b)vegetable c)animal d) bird

30. 3 persons a, b, c were there A always says truth, B lies on Monday, tuesday, & Wednesday. but C lies on thursday, Friday & saturday .one day A said "that B & C said to A that" B said "yesterday was one of the days when I lies", C said that "yesterday was one of the days when I lies too". then which day was that?

Ans: a Sunday b thursday c saturday d.Tuesday

31.a long story & with in it a mathematical series present like

8 6 17 14 35 30 71 _ 143.

32. One man want to build a wall the length and breadth of the wall are 20, 30 respectively. He need 35 bricks for one square centimeter then how many bricks he need?

Ans: $l*b*35$ (no of bricks needed for sqcm)

33. one person had three children.he has 7 pennis.then how he can distribute the fruits among his child by folloing conditions.

a)he can get one water millon for 1 penny.

b)he can get 2 oranges for 1 penny.

c)he can get 3 grapes for 1 penny.

Ans:2 water millon 1 orange 1 grape

34. $\frac{1}{3}$ rd of a number is more 3 than the $\frac{1}{6}^{\text{th}}$ of a number then find the number?

Ans:18

35. In Tnagar many buildings were under residential category.for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many time 6 will appear in building numbering?

Ans:

For 1 to 10 - 1 six

2 to 20 - 1 six

Similarly upto 59 we utilise six, 5 times

from 60 to 69 (including 66) - 11 times

from 70 to 100 - 3, hence ans = $5+11+3 = 19$

Ans:19.

36. one grand father has 3 grand child.eldest one age is 3 times of the youngest child age.sum of two youngest child age is more than two of eldest one age.find the eldest one age?

Ans: 15(we can easily predict from options, as we take y as 15)

37.difrence b/w two nubers is 4.and their product is 17.then find the sum of their squers?

Ans: 70 (By using $(x-y)^2=x^2+y^2-2xy$)

38. I dont remember exactly the question, one logical problem stating the colour of beer?

Ans: white.

39. find category from following Jumbled letters, parakeet(answer)

Ans: bird(category)

40. which is the smallest digit when divides the 2880 gives perfect square.?

Ans:5 (we can easily predict from options, as we divide them with 2880)

41. I don't have any brothers and sisters. by pointing a picture that man said that his father is my father's son then who is he?

Ans: his son.

42. 6 persons standing in queue with different age group, after two years their average age will be 43 and seventh person joined with them. hence the current average age has become 45. find the age of seventh person?

Solution: Here the question appears as an easy one, but carries a lot of unwanted sentences and unwanted data (I didn't mention above) in exam which may confuse you on solving technique.

So now we can compute x from above equation. ($x = 41$, $6x = 246$)

Let now we compute y , $((6x+y)/7) = 45$, as we have value of x , compute y .

Ans: 69

43. The ratio b/w the ages of two persons is 6:5 and sum of their ages is 77 then how many years later their ratio becomes 8:7?

Ans: we can easily predict from options

44. Horse started to chase dog as it relieved stable two hours ago. And horse started to run with average speed 22 km/hr, horse crossed 10 mts road and two small ponds with depth 3m, and it crossed two small streets with 200 mts length. After traveling 6 hrs, 2 hrs after sunset it got dog. compute the speed of dog?

Ans: As we have speed and travel time of horse, we can get distance travelled by it...

Hence $d = 22 * 6 = 132 \text{ km}$,

Exactly this 132 km was travelled by dog in 8 hours (as it started two hours earlier).

Hence speed of dog = $132/8 = 16.5 \text{ km/hr}$

Ans: 16.5 km/hr.

45. Six friends go to pizza corner there are 2 types of pizzas and six different flavors there they have to select 2 flavors from 6 flavors what's the chance to select?

Ans: 6C2

46. 3, 22, 7, 45, 15, ?, 31

Solution: Here it appears simple, because it is arranged in sequence manner, but the actual question was somewhat twist mentioning fibonacci series and moreover question was in statements (no numbers).. hence first try to understand the question well.

here let group alternate terms 3, 7, 15, 31 ($3+4=7$, $7+8=15$, $15+16=31$)

Similarly for second group (22, 45, ? ($22+23=45$, $45+46=91$)) hence ans is 91.

47. cycles and 4 wheelers problem?

Ans: We can easily predict from options

48. some irrelevant data. in last two lines problem will be there.

One man walks certain distance with 5 kmph. and walk back the same

Ans: A

49. A and B tanks r there. $\frac{1}{8}$ th of the tank B is filled in 22Hrs. what is time to fill the tank full?

50. 5 friends went for week end party to Mc donalds restrurent and there they measure there weights .some irrrrrrrrrrrrrrrilevent data. finel measure is 155 kg then find the average weight of 5 people?

Ans: $155/5=31$

51. 2 pots r there. 1st pot is filled with ink and 2nd pot is filled with water. take 1 spoon of ink from 1st pot and pore it in 2nd pot. and take 1 spoon of mixture from 2nd pot and pore it in 2nd pot then which one of following is true?

Ans: Water in 1st pot is less than the ink in 2nd pot.

52: One electronic problem? Ohm's law

Ans: $V=IR$

53. There r ten spots in library and each spot has 4 tables and ten readers ar there . sorry I don't remember complete question?

Ans: None

54: lion and tiger r there. lion lies on Monday, tues, wends and tiger lies on thurs, frid, sat.

Lion said that today is one of those days when I lies.

Tiger said that today is one of those days when I lie too. Then find today?

Ans: Thursday

55. 6 persons standing in queue with different age group, after two years their average age will be 43 and seventh person joined with them. hence the current average age has become 45. find the age of seventh person?

Solution: it is given as after 2 yr average age will be 43 so now the average is 2 yr.

After addition of 7th person avg is 45 so 7th person will be $45+(6*(45-4))$

Ans: 69

56. Horse started to chase dog as it relieved stable two hrs ago. And horse started to ran with average speed 22km/hr, horse crossed 10 mts road and two small pounds with depth 3m, and it crossed two small street with 200 mts length. After traveling 6 hrs, 2hrs after sunset it got dog. compute the speed of dog?

Ans: As we have speed and travel time of horse, we can get distance travelled by it...

Hence $d = 22 \times 6 = 132\text{km}$,

Exactly this 132km was travelled by dog in 8 hours (as it started two hours earlier).

Hence speed of dog = $132/8 = 16.5\text{km/hr}$

Ans:16.5km/hr.

57. 3, 22 , 7, 45, 15, ? , 31

Solution: Here it appear simple, because it arranged in arranged in sequence manner, but the actual question was some what twist mentioning fibonacci series and more over question was in statements (no numbers).. hence first try to understand the question well.

here let group alternate terms 3,7,15,31 ($3+4 = 7$, $7+8 = 15$, $15+16=31$)

Similarly for second group (22,45,? ($22+23 = 45$, $45+46 = 91$) hence **ans is 91.**

58. In Tnagar many buildings were under residential category.for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many time 6 will appear in building numbering?

Ans:

this type of question if it is asked how many 2,3,4,5,6,7,8,9 then you bindly write the answer as 20.but for 1 answer will be **21** as 100 is included

59. $((4x+3y)+(5x+9y))/(5x+5y) = ?$ as $(x/2y) = 2$

Ans: as $x=2y$ put the value and get the answer.

60: If we subtract a number with y, we get 4 increase of number, once it got divided by y itself.. Find that number??

Ans: 12 (we can easily predict from options, as we take y as 6)

61. I dont remember exactly the question, one logical problem stating the colour of beer?

Ans: white. what ever the question about the color of beer means you wrote the answer as white because polar beer.this question is very lengthy don't burther about that.

62. Jumbled letters, parakeet(answer)

Ans: bird(category)

63. Im only son for my parents. (some irrelevant statements in the middle to distract u).The man in picture is my father's son.(some irrelevant statements).who is he?

64. A toy train can make 10 sounds sound changes after every 4 min.....

.....

.....

now train is defective and can make only 2 sounds.....

.....

find probability that same sound is repeated 3 times consecutively(1 OUT OF ___)?

1.16

2.8

3.12

4.4

ANS:

$$(1/2)*(1/2)*(1/2)=(1/8)$$

thus 1 out of 8

65.

.....

.....

.....

resistance is X ohm voltage Y then what is current

1.

2.

3.

4.

ans: $V=IR$

66. I have 3 grandsons.....

age diff btw 2 of grandsons X yrs

1st grandson is twice elder than younger one

addition of ages of all the three is y

then what is age of eldest grandson??(there is some value in X and Y)

67. Ferrari is leading car manufacturer. *Ferrari S.p.A.* is an Italian sports car

It has enjoyed great success.

If Mohan's Ferrari is 3 times faster than his old MERCEDES which gave him 35 kmph

if Mohan travelled 490 km in his Ferrari

the how much time(hours) he took??

1.8

2.4

3.7

4.7.33

(options may be different)

68. Lion rat stay in jungle happily.....

.....

Lion lies on : MON TUE WED

RAT lies on : WED THURS SAT

if lion says : I didn't lie yesterday

RAT says : I didn't lie yesterday

so what day is today??



69. The ratio of current age of X and Y is 5:7, after how many years their age ratio will be 7:9?

70. Inspired by fibonacci series sanket decided to create his own series which is 1,2,3,7,7,22,15,67,....
lik dis, then what no. comes immediately before 63?

ans= 202

xplanation ; check alternate no. 1,3,7,15=====>n*2+1
similarly 2,7,22,67=====>n*3+1
so series is 1,2,3,7,7,22,15,67,31,202,63.....

71. By using 1,2,3,4,5, how many 5 digit no. can be formed which is divisible by 4, repetition of no. is allowed??

Ans-last 2 place should be divisible by 4

So possible values at last place are 12,24,32,44,52 this can be arranged in 5 ways

The rest 3 places can be filled in 5*5*5 way so total is 5^4

72. The cost 1 plum is 1 cent, 2 apples is 1 cent, 3 banana is 1 cent.....

if rahul buys same amount of fruits for his 3 sons spending 7 cent then what amount of fruit each child will get??

ans: 1 plum, 2 apple, 1 banana

xplanation: $7/3 = 2.333$ cents for each child

according to ans given for the sum each child will get 1 plum, 2 apple, 1 banana

73. 2880 is divided by which smallest no. so we get no. which is perfect square???

ans= 5

xplanation $2880/5 = 576$ sure sort question.

74. There are two prime no.....(with some nonsense stuff).....

then addition of two prime no is 13, multiplication is 21, then what are some of their squares?

Explanation : $XY = 21$ and $X + Y = 13$...solve using calc..ans of X & Y will be in points..then $x^2 + y^2 = ??$

75. Smita was making 1 design(again some nonsense)....size of larger cube to be made is $5*5*5$

using smaller cubes of $1*1*1$she created solid larger cube ..then she decided to make hollow cube...

then how many $1*1*1$ cubes reqd to make hollow larger cube

Ans= 104

Explanation $(25+25)+(15+15)+(12+12)=104$

76. $2X/5Y=5X/3Y$...den wat is x/y

77. A [pizza](#) parlor provides pizzas...there wer 2 toppings available initially peperoni and [salami](#).
but now they,ve introduces 8 new toppings (some names) to select from.....
a person wishes to buy two DIFFERENT pizzas of NEW topping....in how many ways he can do that??

ans : $8 \times 7=56$

78. Person travels to....(some nonsense stuff).....if he goes from A to B with speed of 4kmph and returns back to B with speed of 5 kmph....what is his avg. speed of journey??(values may b different)

Ans: 4.44(its NOT 4.5)

Explanation : $2PQ/(P+Q)=2*4*5/(4+5)=4.44\text{kmph}$

79. There is a dice having value frm 1 ..6 on each face.....and a pack of cards having face card aces
(hugh chunk of nonsense).....when 2 dies are thrown and their scores are added then which sum will come max number of times??

- 1.8
- 2.9
- 3.10
- 4.11

Ans: 8

Explanation : 8----2,6 3,5 4,4

9----4,5 3,6

10----5,5 4,6

11---- 5,6

thus 8's probability is more

80. "susha brought terilon cloth and rope to (some nonsense nw jst go to last 2 lines)...."....
if rope is 153 mtr long and it is to be cut into pieces of 1 mtr long then how many times will she have to cut it??

Ans : 152 times

81. There are some 2 wheelers and 4 wheelers parked(some nonsense).....total number of wheels present is 240
then how many 4 wheelers wer there
Ans-

This can be done by looking at the option first check the no of bicycles and then multiply it by 2.

And then subtract the multiplication value from 240 if the value is divided by 4 then that is the answer

82. $1/3$ of a number is 6 more than $1/6$ of that number then what is the number

Ans= $x/3=x/6+6=36$

83. The cost of making a robot consists of material cost, repairing cost, coloring cost and is in the ratio 3:4:5. if the material cost is 1200 then find out the cost of the robot.

Ans- simple 3 part is 1200 so $3+4+5=12$ part=?

84. There are pepsi 1 litre & oil 1 litre .it is given as 1 spoon of pepsi is aken and is mixed with Oil. Then 1 spoon oil&pepsi is taken and is mixed with pepsi then which of the condition holds true.

Ans-the amount of pepsi in oil is mre than amount of oil in pepsi.

85. An tank is filled with water .in first hour 10 lit ,in second hour 20 lit and in 3 rd hour time 40 lit.if time taken to fill $1/4$ of the tank is 5 hr.what is the time required to fill up the tank.

Ans-as the water is filled as twice speed.and in 5 the hour $1/4$.so in 6 hour $1/2$.so answer 7 th hour.

86. Which is the smallest no divides 2880 and gives a perfect square?

a.1 b.2 c.5 d.6 **Ans: c**

87. Two bowls are taken, one contains water and another contains tea.one spoon of water is added to second bowl and mixed well, and a spoon of mixture is taken from second bowl and added to the second bowl. Which statement will hold good for the above?

(Ans: second liquid in first bowl is smaller than the first mixture in second bowl)

88. Form 8 digit numbers from by using 1, 2,3,4,5 with repetition is allowed and must be divisible by4?

a.31250 b.97656 c.78125 d.97657

Ans: c

89. Rearrange and categorize the word 'RAPETEKA'?

Ans: bird

87. In school there are some bicycles and 4wheeler wagons.one Tuesday there are 190 wheels in the campus. How many bicycles are there?

Ans: 15

88. Key words in question (Fibonacci series, infinite series, in the middle of the question one number series is there....I got the series 3 12 7 26 15 ?

Ans:54

(Logic: $3*2+1=7$ $12*2+2=26$

$7*2+1=15$ $26*2+2=54$)

89. A lies on mon, tues, wed and speak truths on other days, B lies on thur, fri, sat and speaks truths on other days ...one day a said I lied today and B said I too lied today. What is the day?

90. Man, Bear, North, South, walks.

Ans: White

91. A father has 7 penny's with him and 1 water melon is for 1p, 2chickoos for 1p, 3 grapes foe 1p.he has three sons. How can he share the [fruits](#) equally?

Ans: 1 watermelon,2chickoos,1grape

92. (1/2) of a number is 3 times more than the (1/6) of the same number?

Ans: 9

93. There are two pipes A and B. If A filled 10 liters in hour B can fills 20 liters in same time. Likewise B can fill 10, 20, 40, 80,160....if B filled in (1/16) th of a tank in 3 hours, how much time will it take to fill completely?

Ans:7 hours

94. [KEYWORDS](#):T.Nagar,Chennai,1-100,prime numbers b/n 140-180,How many 2's are there?

Ans: 20 (Not only 2's ,1's,3's,4's,5's,6's,7's,8's,9's,0's also 20)

95. A man is standing before a painting of a man and he says I have no bro and sis and his father is my father's son?

Ans: he himself

96. One question has last part like difference between two terms is 9 and product of two numbers is 14, what is the squares of sum of numbers?

Ans:109

97. What is the value of $[(3x+8Y)/(x-2Y)]$; if $x/2y=2$?

Ans:10 {the numerical may change)

98. A pizza shop made pizzas with to flavours.in home there are 'N' different flavors, in that 'M' flavors are taken to made pizza.in how many ways they can arrange?

(Logic: N_{CM})

99. One grandfather has three grandchildren, two of their age difference is 3, eldest child age is 3 times youngest child's age and eldest child's age is two times of sum of other two children. What is the age of eldest child?

Ans:15

100. KEYWORDS: one organization ,material labor and maintenance are in the ratio of 4:6:7,the material cost is:100,what is the total cost?

Ans: 425

101. KEYWORDS: density, reluctance, sensitivity, voltage ,current, what is the resistance Formula is " $R=V/I$ "

102. In a market 4 man are standing .the average age of the four before 4years is 45,after some days one man is added and his age is 49.what is the average weight of all?

Ans: 49

103. KEYWORDS: Sports readers,10 tables,4chairs per table, each table has different number of people then how many tables will left without at least one person?

Ans : 6

107. KEYWORDS: Die, card, coin, b/n 2 to 12

Ans: All are equal

108. In a school for a student out of a 100 he got 74 of average for 7 subjects and he got 79 marks in 8th subject. what is the average of all the subjects?

Ans: 74.625

109. In a question ,last part has ,the ages of two people has the ratio of 6:6 and by adding the numbers we get 44,after how many years the ratio would be 8:7?

Ans: 8

110.One train travels 200m from A to B with 70 km/ph. and returns to A with 80kmph, what is the average of their speed?

111. Two years before Paul's age is 2times the Alice age and the present age of Paul is 6times the Alice. what is the presents Paul's age???(3years) "u try to solve this question once"

112. There is ferarri and benz car, benz speed is say 10kmph and it cover 10 km.And if ferarri goes with 3 times faster than benz.So in how much time ferarri could take to cover same distance.

sol: as speed of ferarri is $3 \times 10 = 30$ so time will be $10/30$

113. If one lady have 3 [daughter](#) and any of out 3 have diff, of ages is 3. And oldest is 3 times of more than 2 than yougest after 2 years then tell the age of oldest daughter.

Solution: let x is youngest, y middle, z oldest. so $y - x = 3$, $z - y = 3$, and $z = 2 = 2(x + 2)$ and put the option answer try to get condition. (sorry i forgot option but pattern ll be same)

114. One question like that, there is fabonaci series and you have to find one number ..clue- it based on series

116. if a person moves 15km straight and turns 45km right and moves 15km straight then how much distance he needs to walk to reach starting point?

117. if there are 30 cans out of them one is poisoned if a person tastes very little he will die within 14 hours so if there are mice to test and 24 hours, how many mices are required to find the poisoned can?

.if atlantic is found in atlantic ocean, india is found in indian ocean then which of the following cases are true

118. if a and b are mixed in 3:5 ration and b,c are mixed in 8:5 ration if the final mixture is 35 litres, find the amount { $a/b = 3 \times 8 / 5 \times 8$ and $b/c = 8 \times 5 / 5 \times 5$ $a/b/c = 24:40:25$

ans = $40 \times 35 / (24 + 40 + 35) = 1400 / 89$

Ans = 15.79}

of b in the final mixture

TAKA
CONSULTANCY
SERVICES

119. $1! + 2! + \dots + 50! = 3 \times 10^{64}$?

120. 6 persons standing in queue with different age group, after two years their average age will be 43 and seventh person joined with them. hence the current average age has become 45. find the age of seventh person?

Solution: Here the question appear as an easy one, but carried a lot of unwanted sentences and unwanted datas (i dint mention above) in exam which may confuse u on solving technique.

Let x be current average age of first 6 persons in queue and current age of seventh person be y . Then $6x$ will become the sum of those 6 persons age.

Now, let compute the sum of those 6 persons after two years, $6x + 12$ (as each and individual increase their age by 2). hence its average become $(6x + 12) / 6 = 43$ (give in question itself).

So now we can compute x from above equation. ($x = 41$, $6x = 246$)

Let now we compute y , $((6x+y)/7) = 45$, as we have value of x , compute y .

Ans: 69

121. Horse started to chase dog as it relieved stable two hrs ago. And horse started to run with average speed 22km/hr, horse crossed 10 mts road and two small ponds with depth 3m, and it crossed two small street with 200 mts length. After traveling 6 hrs, 2hrs after sunset it got dog. compute the speed of dog?

Ans: As we have speed and travel time of horse, we can get distance travelled by it...

Hence $d = 22 \times 6 = 132\text{km}$,

Exactly this 132km was travelled by dog in 8 hours (as it started two hours earlier).

Hence speed of dog = $132/8 = 16.5\text{km/hr}$

Ans:16.5km/hr.

122. 3, 22 , 7, 45, 15, ? , 31

Solution: Here it appear simple, because it arranged in sequence manner, but the actual question was some what twist mentioning fibonacci series and more over question was in statements (no numbers).. hence first try to understand the question well.

here let group alternate terms 3,7,15,31 ($3+4 = 7$, $7+8 = 15$, $15+16=31$)

Similarly for second group (22,45,? ($22+23 = 45$, $45+46 = 91$) hence ans is 91.

123. In Tnagar many buildings were under residential category.for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many time 6 will appear in building numbering?

Ans:

For 1 to 10 - 1 six

2 to 20 - 1 six

Similarly upto 59 we utilise six, 5 times

from 60 to 69 (including 66) - 11 times

from 70 to 100 - 3, hence ans = $5+11+3 = 19$

Ans:19.

124. If we subtract a number with y , we get 4 increase of number, once it got divided by y itself.. Find that number??

Ans: 12 (we can easily predict from options, as we take y as 6)

125. I'm only son for my parents. (some irrelevant statements in the middle to distract u). The man in picture is my father's son. (some irrelevant statements). who is he?

Ans: he himself (blood relation type of question)..

126. It is the class with the seating arrangement in 4 rows and 8 columns. When the teacher says 'start' the girl who is sitting in first row and first column will say 1, then the next girl sitting behind her will say 4, the next girl sitting behind that girl will say 7, in a particular order each girl is telling a number, the following girls told 10, 13 next turn is yours what u will say? 16

127. It is dark in my bedroom and I want to get two socks of the same color from my drawer, which contains 24 red and 24 blue socks. How many socks do I have to take from the drawer to get at least two socks of the same color?

a) 2

b) 3

c) 48

d) 25 ; **Solution: 3**



128. Inspired by fibonacci series sanket decided to create his own series which is 1,2,3,7,7,22,15,67,....
lik dis, then what no come immediately before 63?

ans= 202

Explanation ; check alternate no. 1,3,7,15=====>n*2+1
similarly 2,7,22,67=====>n*3+1
so series is 1,2,3,7,7,22,15,67,31,202,63.....

129. Valentine day 14 Feb 2005, was celebrated by n and u on Monday, he was very happy, he n she.....
.....den day on 14 Feb 2010???(similar to dis some date qn was der)

130.the cost 1 plum is 1 cent ,2 [apples](#) is 1 cent,3 banana is 1 cent.....
if rahul buys same amount of [fruits](#) for his 3 sons spending 7 cent den what amount of fruit each child will get??

ans: 1 plum ,2 [apple](#),1 banana

xplanation: $7/3=2.333$ cents for each child

according to ans given for d sum each child will get 1 plum ,2 apple,1 [banana](#)

131.there is a dice having value frm 1 ..6 on each face.....and a pack of cards having face card
aces

(hugh chunk of nonsense).....when 2 dies are thrown and their scores are added then which sum
will come max number of times??

1.8

2.9

3.10

4.11

Ans: 8

explanation : 8----2,6 3,5 4,4

9----4,5 3,6

10----5,5 4,6

11---- 5,6

thus 8's probability is more

132."susha brought terilon cloth and rope to (some nonsense nw jst go to last 2 lines)...."
if rope is 153 mtr long and it is to be cut into pieces of 1 mtr long then how many times will she
have to cut it??

ans : 152 times

133.(dnt remembr the xact q but procedure was somethn lyk this)

.....8th year-- $1/1024$,, 9th year-- $1/512$,, 10th year-- $1/256$ then aftr hw many years
 $1/32$???

ans: 13

134.there are 2 cans A and B one of MILK and other of Water resp. , both of same qty.....

first one teaspoon of milk from A can was added to B can...

then one teaspoon from B can was added to A can then wich of the folloe\wing is true..

1.Can A contain more [milk](#) than water in can B

2.Can A contain less milk than water in can B

3.both contain same qty of milk and water

4.

Ans : option--2

135.If a pipe can fill the tank within 6 hrs but due to leak it took 30 min more

now if the tank was full hw much tym will it take to get emptied through the leak??(i dont remembr whole sum exactly)(lil bit tricky sum)

136. Avg wt of class is X kg(some number) after adding wt of the teacher avg wt of class becomes Y kg then wat is the wt of the teacher??

137. 20 men shake hand with each other. Maximum no of handshakes w without cyclic handshakes.

138. 100 men & women dance with each other. Probability that a man cannot dance with more than two women.

139. Horse chasing a pony. Horse leaves stable aftr 2hrs from ponys departure. 4 hrs 2 catch pony. Find speed of pony. Given-speed of horse.

140. A man goes north 37km.turns left goes 2km.turns right goes 17km.turns right goes 2km. find distance b/w starting&ending point.

141. Lady hav 2 select gloves&hat from a basket I the dark.she can distinguish hat&gloves.14red,20blue,18green r there. Find probability that any selected glove pair has same colour.

142. Alice in wonderland meets a character goblet whose age is 2times alice.aftr 2 years age problem

143. Peter is 2times paul's age was when peter's age is same as paul's present age.find pauls age.

144. From a rope a triangle is made of sides 21cm,24cm,28cm. from this a square is made. Find area of square.

145. In a supermarket average of 4people standin in queue taken 2yrs before is 55yrs. Now a person of 45 yrs is added current age.

146. A toy can produce 10diiff sounds. Nw toy is defective to produce 2 sounds in 3min. find probability that it produces 6 consecutive is 1 in()

147. $\frac{1}{6}$ th of a no is 4 times more than $\frac{2}{3}$ of a no.find no

148. Age of 2 in d ratio 4:5. Total of 2 ages is 55. Aftr 2 yrs age in ratio 5:7 ages

149. A jogger [jogs@1/6th](#) of his usual speed. How much % she has 2 increase 2 reach normal pace of walking.

150: X is 3 years yunger to Y. X's father is a businessman who invested 10000/- at 8% rate of interest n obtained his amount after 10 years. Y's father is a job holder who invested around 20000 at 2% rate n obtained his amount after 20 years.Now Compunded both of dem get around ABC rs/-(dnt remembr).After 5 years the ratio of ages of X n Y is 1:2. Now X's father is 20 years

older to Y n Y' father is 30 years more than X. After 20 years again X's mother asks X's father to purchase a LCD TV which costs around 45000/-.

what is the age of X n Y together?

Ans: answer lies in considering two statements together i.e "X is 3 years younger to Y" n "After 5 years the ratio of ages of X n Y is 1:2"

151. 3, 22, 7, 45, 15, ?, 31

Solution: Here it appears simple, because it is arranged in sequence manner, but the actual question was somewhat twisted mentioning fibonacci series and moreover question was in statements (no numbers).. hence first try to understand the question well.

here let group alternate terms 3,7,15,31 ($3+4=7$, $7+8=15$, $15+16=31$)

Similarly for second group (22,45,? ($22+23=45$, $45+46=91$) hence ans is 91.

152. In Tnagar many buildings were under residential category. for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many times 6 will appear in building numbering?

Solution:

For 1 to 10 - 1 six

2 to 20 - 2 six

Similarly upto 59 we utilise six, 6 times

from 60 to 69 (including 66) - 11 times

from 70 to 100 - 3, hence ans = $5+11+3=19$

Ans:19.

153. The bacteria had a probability of splitting into three and a probability to die is one third of total bacteria.. Let the probability be P. Some of them survived with probability $1/5$. then wic among the following relation is true?

a) $P=1/3+1/5*3$

b) $P=1/5*(1/8-3)$

c)

154. if a tank A can be filled within 10 hrs and tank B is $1/4^{\text{th}}$ filled in 19 hrs.. then what is the duration of the tank to fill completely?

155. A man looks at a painting and tells "Neither I have brothers nor sisters, but the person in the painting is my father's son". Then who is in the painting?

156. A lady had fine gloves and hats. 25 blue, 7 red and 9 grey. she had to select a pair among them. But there was no light so she had to select in darkness the correct pair with a glove and a hat. Therefore how many combinations of same color she can select?



157. A old lady had three grandchildren, the difference between two children was 3 years. Her eldest grandchild was 3 times elder than the youngest one and the elder one 2 years more than the sum of the other two. Then what is the age of the eldest child?

158. There was a grandmother in a village who had a grandchild. Upon asking her grandchild's age she told that she is as older as many days old as her daughter's age in weeks and as many days as her own age in years. The sum of the three is 130. then how old is the child?

159. $(98 \times 98 \times 98 - 73 \times 73 \times 73) / (98 \times 98 \times 98 + 73 \times 73 \times 73) = ?$

8. which is the smallest number with which dividing 2880 to make it a perfect square?

a.6 b.5 c.4 d.3

Ans :5

160. Leena cut small cubes of 10 cubic cms each. Which she joined to form a cube with 10 cubes length, 5 cubes in depth and 5 cubes wide. How many more small cubes does she require to form a perfect cube?

10. the first two numbers are 1 and 2. The numbers in series are 3,6,7,14, , 32? Which number comes before 32

161. The age of two people is in the ratio 6:8. the sum of their ages is 77. after 2 years the ratio of their ages becomes 5:7. what is their present age?

162. if a and b are mixed in 3:5 ratio and b,c are mixed in 8:5 ratio if the final mixture is 35 litres, find the amount of b in the final mixture

163. A vendor sells 1 apple for 1 penny, 2 grapes for 1 penny, 3 bananas for 1 penny. A man spends 7 penny and gives equal amount of fruits to each of his three daughters. What is the possible number of fruits each daughter gets? Ans: 1 apple, 2 grape, 2 banana

164. 5 persons standing in queue with different age group, two years ago their average age will be X (I couldn't remember) and 6th person joined with them. hence the current average age has become Y (I couldn't remember). find the age of seventh person?

165. Horse started to chase dog as it relieved stable three hrs ago. Avg speed of the horse was given and the time horse chased dog was also given. What is the speed of the dog?

166. 5,9,12,18,26,36,47,72,--? Here odd terms have differences as multiples of 7 and even terms add with themselves to form the next number. So answer is 75.

167. In T Nagar many buildings were under residential category. for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many times 4 will appear in building numbering? Ans: 19

168. Jumbled letters, choices were given whether the word is bird or city or sweet.....parakeet(answer)

Ans: bird(category)

169. Lion tells lie on Monday, Tuesday, and Wednesday. Rat tells lie on Thursday, Friday and Saturday. Both of them speak truth on other days. Lion tells, "Yesterday was one of the days which I tell lying". Rat also tells, "Yesterday was one of the days which I tell lying". what day was yesterday?

170. There were three different gloves. 13 red, 27 black and 40 green. How many gloves one has to take so as to ensure that there is at least one pair in each color?

171. Probability of occurrence of some events was given. Have to find total probability of specified group of events.

172. One person has no siblings and says, "the guy in the photo is the only son of my father 's son". What is the relation of the guy to the person?

173. Difference of two numbers is 6. Product of them is 13. What is the sum of their squares?

174. Voltage and current are given, resistance was asked. $V=IR$

175. Speed and distance were given and time taken was asked. $T=D/S$

176. A problem on finding the age of the grand mother.

177. A lady builds 9cm length, 10cm width, 3cm height box using 3 cubic cm cubes. What is the minimum number of cubes required to build the box?

178. When a pair of dice is thrown, what number has the higher probability to occur...the sum of 8 or 9 or 10?

179. A person has to make 146 pieces of a long bar. He takes 4 seconds to cut a piece. What is the total time taken by him in seconds to make 146 pieces?

180) 6 persons standing in queue with different age group, after two years their average age will be 43 and seventh person joined with them. hence the current average age has become 45. find the age of seventh person?

Solution: Here the question appear as an easy one, but carried a lot of unwanted sentences and unwanted data (i dint mention above) in exam which may confuse u on solving technique.

Let x be current average age of first 6 persons in queue and current age of seventh person be y . Then $6x$ will become the sum of those 6 persons age.

Now, let compute the sum of those 6 persons after two years, $6x+12$ (as each and individual increase their age by 2). hence its average become $(6x+12)/6 = 43$ (give in question itself).

So now we can compute x from above equation. ($x = 41$, $6x = 246$)

Let now we compute y , $((6x+y)/7) = 45$, as we have value of x , compute y .

Ans: 69

181) Horse started to chase dog as it relieved stable two hrs ago. And horse started to ran with average speed 22km/hr, horse crossed 10 mts road and two small ponds with depth 3m, and it crossed two small street with 200 mts length. After traveling 6 hrs, 2hrs after sunset it got dog. compute the speed of dog?

Ans: As we have speed and travel time of horse, we can get distance travelled by it...

Hence $d = 22*6 = 132\text{km}$,

Exactly this 132km was travelled by dog in 8 hours (as it started two hours earlier).

Hence speed of dog = $132/8 = 16.5\text{km/hr}$

Ans:16.5km/hr.

182) 3, 22, 7, 45, 15, ?, 31

Solution: Here it appears simple, because it is arranged in sequence manner, but the actual question was somewhat twist mentioning fibonacci series and moreover question was in statements (no numbers).. hence first try to understand the question well.

here let group alternate terms 3,7,15,31 ($3+4=7$, $7+8=15$, $15+16=31$)

Similarly for second group (22,45,? ($22+23=45$, $45+46=91$) hence ans is 91.

183) In Tnagar many buildings were under residential category. for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many time 6 will appear in building numbering?

Solution:

For 1 to 10 - 1 six

2 to 20 - 1 six

Similarly upto 59 we utilise six, 5 times

from 60 to 69 (including 66) - 11 times

from 70 to 100 - 3, hence ans = $5+11+3=19$

Ans:19.

184) $((4x+3y)+(5x+9y))/(5x+5y) = ?$ as $(x/2y) = 2$

Ans: 2 (simple algebra, i think u no need of explanation)

185) If we subtract a number with y, we get 4 increase of number, once it got divided by y itself.. Find that number??

Ans: 12 (we can easily predict from options, as we take y as 6)

186) I dont remember exactly the question, one logical problem stating the colour of beer?

Ans: white.

187) Jumbled letters, parakeet(answer)

Ans: bird(category)

188) ratio proportional problem with age. Sorry, dint remember exact question.

189) one question like. $(209*144)^2 + (209*209) + (209*144) + (144*144) = ?$

Ans: here you can use calc, many(4 to 5) questions were depend upon calc alone.(no need problem solving technique).

190) Im only son for my parents. (some irrelevant statements in the middle to distract u).The man in picture is my father's son.(some irrelevant statements).who is he?

Ans: he himself(blood relation type of question).

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191 By which number should we divide the number 2880 to make it perfect square?

Ans: 5

192. There is a problem to find out the color of beer. It is full of unwanted data in problem. for that the

Ans: white

193. $\frac{1}{3}$ of some number is 5 more than $\frac{1}{6}$ th of that number. Find the number.

Ans: 30

194. Difference of two numbers is 4 and their product is 13. Find the sum of squares of that numbers.

Note: this problem starts with the story of aryabhata , ignore all and read the problem from last line.

195. How many of 14 digit numbers we can make with 1,2,3,4,5 that are divisible by 4. Repetitions allowed.

Ans: we have calculate the value $(5^{\text{power}12}) * 4$ (like $5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 4 =$ value will be given in answers check it out)

196. There is a lengthy problem with details of Chennai city. At last they ask how many 6's came when we give numbering to 100 buildings from 1 to 100.

Ans: 20

197. Rearrange the alphabets REGHFTYD(SOMETHING LIKE THAT) . find the type of rearranged word belongs to:

- a. Animal
- b. Tree
- c. Bird
- d. Thing

Ans: c (bird)

198. There is a factory which is producing the bicycles and four wheelers. One day the total production of wheels is 158. Find out the possible no. of bicycles produced

- a. 6
- b. 7

c. 8

d. 9

Ans: 7 (note: there is a probability of the answer of 19 also for this question . take care of it.)Also they change the total number of wheels to 198.

199. Four years hence the average of 6 members is 45. Now a person is added and the avg becomes 48. What is the age of added person?

Ans: 42

There is another question with diff. details. For that ans is :69 (problem is not remembered but ans is 69 only)

200. A dog two hours early before the horse started. The horse reached the dog after 6 hours with the speed of 16kmph . find the speed of dog. I cant remember the exact figures.

Ans may be 16.5kmph

201. There is a problem with blood relations. A man is saying while pointing to a person who is painting like this:” I am the only son to my father. His father is the son my father”. Find the relation to him with the painting person.

ans: his son

202. There is problem on probabilities. There are gloves and hats with three different colors with some totals are given for each type. Then asked to find out the probability of taking the pair of glove and hat of same color in dark.

203. There is a bacteria which has the probability of die $\frac{1}{3}$ of its total number or it may tripled. Find out the probability

A. $P = \frac{1}{3} + (2/3 * p^3)$

B. $P = \frac{2}{3} + (2/3 * p^3)$

C. $P = \frac{2}{3} + (1/3 * p^3)$

D. $P = \frac{2}{3} + (2/3 * p^3)$

I marked it as A. check it out

204. There are two tanks A,B. A will be fill up 1ltr in one hour. B tank will fill up double in every hour (like 10, 20, 40, 80, 160.....). if the tank B is filled $\frac{1}{16}$ in 13 hours how much time it will take to fill up totally.

Ans: 17 hours (note: here no need with A tank details. but they gave to confuse, all problems are like this ,avoid unnecessary data)

205. In a hotel we can order two types of varieties, but we can make 6 more varieties in home. One can want the four varieties with two from hotel must. Find how many ways one can order.

Ans: 12 ways

206. There is a series 13,14,27,30,55,62,?, 126. Find the missing.

This is combination of two series; 13,27 55, ? and 14, 30, 62, 126 (14, $14*2+2(30)$, $30*2+2(62)$,....)

13, $13*2+1(27)$, $27*2+1(55)$, $?=55*2+1=111$.For this numbers may be changed but the logic is same.

207. There are three frnds x, y, z gone to excursion with their girl frnds. there they wanted to find their weights but their GF's are not accept to check their weight(all unnecessary data) . Then they check weights as x, y, z individually and then x and y, y and z, x and z ,then all(x,y,z). the last measure is 171. Then find the avg of all these seven measures.

208) Two tanks A and B. A fills 1 ltr/1 hr... b fills 10, 20, 30..... per hour. if this is (passage unnecessary). if 1/4th tnk of b takes 15 hrs to fill how much it time will t take to fill complete tank?

209) Out of 7 children the youngest is boy then find the probability that all the remaining children are boys

Ans: $1/2^6 = 1/64$

210) The three sides of a triangle are given.16, 14, 21 cms and this triangle is conveted into a square .so what will be the area of the square generated?

Ans: - $(14+16+21)/4$. Then you will get the 1 side of a square and now find the area of a square.ie, $side^2$

211) An equation of the form $4x+6y-2z=32$. Find the difference between x intercept and z intercept?

Ans: $x/a+y/b+z/c=1$

212) A toy train can make 10 sounds sound changes after every 4 min.....
..... now train is defective and can make only 2 sounds..... Find probability that same sound is repeated 5 times consecutively (1 OUT OF ___)?

Ans: 1/32

213)) 20men and 20 women are there, they dance with each other, is there possibilty that 2 men are dancing with same women and vice versa.

Ans-never

214) 10 people are there, they are shaking hands together, how many hand shakes possible, if they are in no pair of cyclic sequence.

Ans-9

215) In school there are some bicycles and 4wheeler wagons. One Tuesday there are 234 wheels in the campus. How many bicycles are there?

Ans: go with options. multiply each option with 2 and subtract the obtained no from 234. if it is exactly divisible by 4, that is the ans....

216) A father has 7 penny's with him and 1 water melon is for 1p, 2chickoos for 1p, 3 grapes for 1p.he has three sons. How can he share the fruits equally?

Ans: 1 watermelon,2chickoos,1grape

217) A pizza shop made pizzas with to flavours.in home there are '9' different flavors, in that '2' flavors are taken to make pizza.in how many ways they can arrange?
(Logic: NcM , $N=9$, $M=2$)

218) one organization ,material ,labor and maintenance are in the ratio of 4:6:7, if the material cost is: 272 ,what is the total cost?

Ans: $4x=272 \implies x=68$; now total cost = $272 + 6(68)+7(68)$.

219) 4 years before Paul's age is 3times the Alice age and the present age of Paul is 6times the Alice. what is the presents Paul's age???

Ans: $x-4 = 3(y-4)$; $x=6y$: solve u will get it..

220) In a question ,last part has ,the ages of two people has the ratio of 6:5 and by adding the numbers we get 55,after how many years the ratio would be 8:7?

Ans: easy u can do it... simple eqtns

221) In a room (unwanted stuff)..... Sports readers,10 tables,4chairs per table, each table has different number of people then how many tables will left without at least one person?

Ans : 6

222) passage..... joe is taller than jerry and 3 pillars. kistern is shorter than joe and 2 pillars is jerry shorter/taller than kistern ?

Ans:

223) a volume of A are having in a container of sphere... how many semi hemispheres of B volume each will be reqd to transfer all the A in to semi hemispheres.....?

Ans: $A = x B$

224) Question based on $V=I \cdot R$ but in this question most of the data given are ridiculous like volume, density, length, height similar long stories are given

Ans:

225) Peter and Paul are two friends. The sum of their ages is 42 years. Peter is twice as old as Paul was when Peter was as old as Paul is now. What is the present age of Peter?

Ans:

226) A horse chases a pony 2 hours after the pony runs. Horse takes 4 hours to reach the pony. If the average speed of the horse is 81 kmph, what is the average speed of the pony? (This question was really long with loads of irrelevant statements)

Ans:

227) Difference between two numbers is 4 and their product is 17. Then find the sum of their squares? Ans:

228) A, B, C, D, E are there among A, B, C are boys and D, E are girls \implies D is to the left of A and no girl sits at the middle and at the extremes. Then what is the order of their sittings..

Ans:

229.) Some ages problem..... then asked the answer in **binary**

Ans:

230)(some chetta chikkati sollu)...unwanted data..... followed by a formula diameter $d = 10 \cdot (t-14)$, $t > 14$... then what is diameter after $t=40$..?

Ans:

231) Some denominations question... like you have 31 paise, and ticket cost is between 1 to 31, you have to give the exact denominations for the ticket. Find all the number of possible denominations you may predict and you must be left with at least a few paise...?

232) Direction problems..... A man goes 50 km NORTH, then turned left walked 40 km, then turned RIGHT...? in which direction is he in?

Ans: NORTH

Questions

233) Out of 6 children the youngest is a boy then find the probability that all the remaining children are boys.

Ans: $1/2^5 = 1/32$

234) A man went 1 mile to the east then 1 mile to the north (unwanted stuff) and killed a bear what is the color of the bear?

Ans: White

235) Some age, average related problems (practice R. S. Aggarwal)

236) $(\frac{1}{2})$ of a number is 3 times more than the $(\frac{1}{6})$ of the same number..?

237) There are two pipes A and B. If A filled 10 liters in hour B can fills 20 liters in same time. Likewise B can fill 10, 20, 40, 80, 160....if B filled in $(\frac{1}{16})$ th of a tank in 3 hours, how much time will it take to fill completely?

Ans: 7 hours

238) In a market 4 man are standing .the average age of the four before 4years is 45, after some days one man is added and his age is 49.what is the average weight of all?

Ans: 49

239) One train travels 200m from A to B with 70 km/ph. and returns to A with 80kmph, what is the average of their speed?

Ans: apply $\frac{2xy}{x+y}$

240) **The three sides of a triangle are given.18, 18, 28 cms and this triangle is converted into a square .so what will be the area of the square generated?**

Ans: $-\frac{(18+18+28)}{4}$. Then you will get the 1 side of a square and now find the area of a square.ie, $side^2$

241) **An equation of the form $7x+17y+3z=54$. Find the difference between x intercept and z intercept?**

Hint: $\frac{x}{a}+\frac{y}{b}+\frac{z}{c}=1$

Ans: convert the above equation to this form and see the difference between a and c then you will get the answer

242) **Permutation problem don't remember exactly, but it was almost like there are n people sitting. Find the number of handshakes**

243) Average wt of class is (some number) kg after adding wt of the teacher average wt of class becomes some number kg then what is the wt of the teacher??

244) A pizza shop, there were 2 kinds of pizzas available. But now they have introduces 8 new types, a person buy two different type pizzas of new type in how many ways he can select?

Ans: $8 \times 7 = 56$

245) Series Problem like 4 12 x 44 46 132 134. Find x? (I could not solve out this in exam).

246) There are 1000 pillars for a temple. 3 friends Linda, Chelsey, Juli visited that temple. (Som unrelated stuff) Linda is taller than Chelsey and taller than 2 of 1000 pillars. Juli is shorter than Linda. Find the correct sentence?

a) Linda is shorter among them

b) Chelsey is taller than Juli

c) Chelsey is shorter than Juli

d) Cannot determine who is taller among Chelsey and Juli

Ans:: d

247) A toy train can make 10 sounds sound changes after every 4 min.....
..... now train is defective and can make only 2 sounds..... Find probability that same sound is repeated 3 times consecutively (1 OUT OF __)?

1.16

2.8

3.12

4.4

Ans: $(1/2)*(1/2)*(1/2) = (1/8)$

248) Probability problem (little tricky)

249) Some Statement and Conclusion type problems

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

a) 8 b) 7 c) 5 d) 3 (I cud not solve out the answer in exam)

251) Dhoni and Ponting are waiting for the toss to happen. Umpire found that the coin to be tossed is missing. Ponting then takes a dice (1-6) from his pocket and asks the umpire to toss with it. Umpire feels both the captains may not get fair chance with dice. Dhoni den suggests a solution to umpire which den wud give fair chance to both captains. What would be the idea of Dhoni?

a) Toss the dice if even no comes captain wil win the toss and if it is odd he loses.

(It's the only option I remember and I think its da answer)

252) Now pet's age is to times when paul was once. But at that time paul's age=pets current age ,how old is pet?

253) Block has 10,9,5 size, how many unit cube is needed to make a block of that size?

254) 23 people are there, they are shaking hands together, how many hand shakes possible, if they are in pair of cyclic sequence.

Ans-22

255) 10men and 10 women are there, they dance with each other, is there possibilty that 2 men

are dancing with same women and vice versa.

Ans-never

256) A lady took out jacket and gloves, which are available in blue 26, yellow 30 and red 56. Power goes off, she can distinguish between gloves and jacket but not in colors. What's the possibility that she will pick up pair of gloves of each color

257) B is taller than j and 3 pillars. P is shorter than B and 2 pillars is j shorter/taller than P?

Ans-irrelevant question

258) Sangakara and ponting selects batting by using a dice, but dice is biased so to resolve ponty takes out a coin, what is the probability that dice shows correct option.

259) In school there are some bicycles and 4wheeler wagons. One Tuesday there are 58 wheels in the campus. How many bicycles are there?

Ans: 7

260. Two bowls are taken, one contains water and another contains tea. one spoon of water is added to second bowl and mixed well, and a spoon of mixture is taken from second bowl and added to the second bowl. Which statement will hold good for the above?

(Ans: second liquid in first bowl is smaller than the first mixture in second bowl)

261. Which is the smallest no divides 2880 and gives a perfect square?

a.1 b.2 c.5 d.6

Ans: c

262. Form 8 digit numbers from by using 1, 2,3,4,5 with repetition is allowed and must be divisible by4?

a.31250 b.97656 c.78125 d.97657

Ans: c

263. One problem on $(a^3-b^3)/(a^2+ab+b^2)$

Ans: 'a-b'

264. Rearrange and categorize the word 'RAPETEKA'?

Ans: bird(parakeet)

265. Key words in question (Fibonacci series, infinite series, in the middle of the question one number series is there....I got the series 3 12 7 26 15 b ?

Ans:54