

# CTS Sample Paper

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Company : CTS  
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College :

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1. Numbers between 1 to 100 divisible by 2 or 3.
2. Sum of the numbers from 1 to 100 if the digit 6 is replaced by 9 in those numbers(Ans : 330)
3. You have an one Kg weight with you. In how many weighs can a 31 Kg rice bag be weighed? (Ans : 5)
4. Priya bought 6 pens, 7 notebooks, and 8 pencils and she had spent all the money she had for that. Rama bought 13 pens,12 notebooks and 9 pencils and rama had 50% of money more than what priya had. How much % rama spends more than priya on priya?
5. This is an analytical question  
There are four numbers a,b,c and d.  
Conditions :  $a+b+c+d=100$ .  
 $A,b,c,d \geq 10$   
All are even numbers  
Each number is different from the other.  
What is the maximum possible value for a? (four choices given)
6. If  $a=54$  then what is the difference between the biggest(54) and the second biggest number?
7. if  $a=54$ ;  $c=2+2d$  then  $c=?$
8. What is the Selling price of x? if the profit % =5% and the cost price = 100
9. Similar question to the above one.
10. Calculate the ages of a son and his father if their present ages are in the ratio 1:2 and before 10 years the ratio was 3:4
11. Same type as the previous one. Sum of their present ages is 80, before 5 years their ages were in the ratio 3:4.(some more questions were from this category)
12. Two cars start from terminals A and B and travel towards B and A respectively. The distance between A and B is 500 metres. The cars move forward with a speed of 50 m/s and they move backwards with a speed of 25 m/s. For every 100 cms movement of the cars in the forward direction they should move backwards by 50 cms. What is the time taken for the cars to collide or meet?
13. In a pack of 52 cards if Ass, Jack, queen and king is removed (from all the four sets) , what is the sum of the remaining cards?
14. An Analytical question from Barron's, having the keywords such as 18<sup>th</sup> century,19<sup>th</sup> century and 20<sup>th</sup> century in the question
15. The diameter of the circle is 4cm. The area of the shaded portion is  $1/3^{\text{rd}}$  area of the square. Find the side of the square

Four girls participate in a the Ms.India competition. Each were wearing a saree of different colour. They were made to sit in a row.

The winner was wearing a yellow saree.

The runner up was not in the corners.

Ms.AP was next to Ms.West Bengal.

Ms.west Bengal is neither the winner nor the runner.

Ms.Maharashtra was wearing a green saree.

Ms.UP was the runner up.

Both winner and the runner are not adjacent and have a person between them.

Who was wearing a Red saree? Ms.WB

Who was the winner? Ms.AP

And one more question of the same order. Plz frame the order. All analyticals are very simple.

Mostly paragraphs are given and the question will be what do you infer from this type. Only one question from each paragraph.

XX) What is the number that divides (3 nos), leaving the remainders( 3 nos) . sums of this type are in RS.A plz refer.

16.In 400m race a gives b a start of 7 sec & beats by 24m.in another race a beats by 10 sec. the speeds are

- a)8,7 b)7,6 c) 12,10 d) 10,8

17. A is thrice as good as a workman as B and takes 10 days less to do a piece of work than B takes. B alone can do the same work in :

- a) 12 days b)15 c)20 d)30

ans available in Agarwal: pp 261 (13)

18. Again from Agarwal:

the mean temperature of Monday to Wednesday was 37 deg. The mean temperature of Tuesday to Thursday was 34 deg. If the temperature on Thursday was  $\frac{4}{5}$  of Monday, what is the temperature on Thursday?

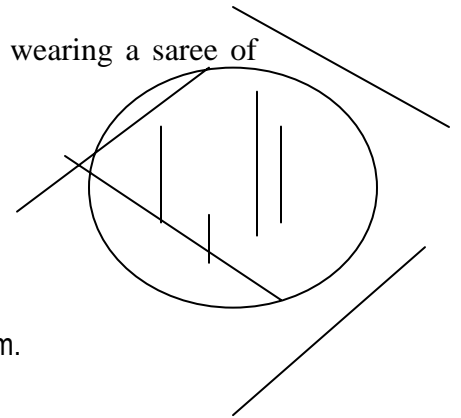
Ans:36. pp=104 (47) in RS. Agarwal

19 A travels at 4 kmph. Two hours after the start of A, B travels at a speed of 1 kmph for the first one hour, 2 kmph for the next one hour and so on. At what time will they meet.

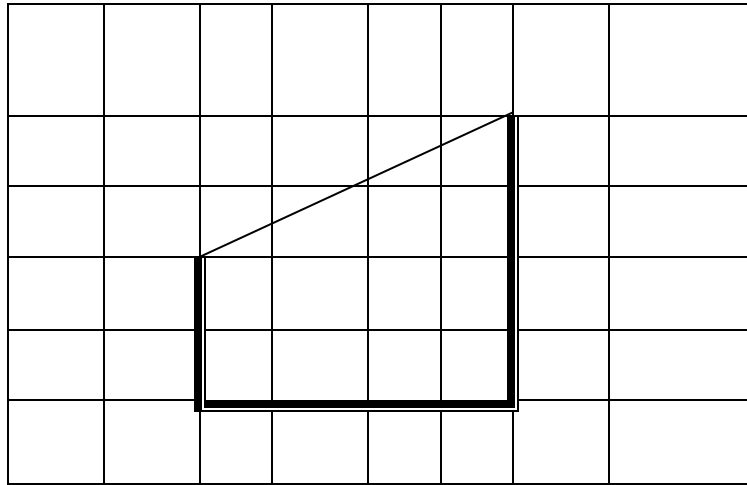
Ans: 9 hours and 48 mts.

20. Given 80 coins with one defective. What is the minmum number of weighings that you will take to detemine the defective (less weight) coin.

Minimum of 5 is available in the question paper. Six is also possible.



21.



What is the number of squares under the figure? ans: 16