Aptitude Test Paper 1

Time Limit 30 mins

1) The sum of two numbers is 84, and one of them is 12 more than the other. What are the two numbers?

2) A number decreased by half of the number is four. Find the number.

3) A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be:

4) To fill a tank, 25 buckets of water is required. How many buckets of water will be required to fill the same tank if the capacity of the bucket is reduced to half of its present?

5) The cost of 5 apples and 6 oranges is 108 and the cost of 6 apples and 5 oranges is 112. Find the total cost of an apple and an orange.

6. Simplify $(272 - 32)(124 + 176) / (17 * 15 - 15)$

7. If $a - b = 3$ and $a^2 + b^2 = 29$, find the value of ab.

8. Find the units digit of 34^33

9. P,Q ,R,S are distinct integers numbered from 1 to 12. What is the possible smallest value for (P/Q)+(R/S)?

    a. 1/12+2/11   b. 1/11+9/10   c.1/11+2/12   d. 1/10+1/11

10)   8+88+888+8888+...........There are 21 "8" digits in the last term of the series. Find the last three digits of the sum.

    a.458b.648   c.658   d.968

11. The average score of a player in 9 matches is 12. If in the 10th match his score is 24. What is his new average score?

12. Nine persons went to a hotel for taking their meals. Eight of them spent Rs 12 each on their meals and the 9th spent Rs 8 more than the average expenditure of all the nine. What was the total money spent by them?

13. The average of 25 results is 18. The average of first 12 of them is 14 and that of last 12 is 17. Find the 13th result?

14. Find the average of all the numbers between 6 and 34, which are divisible by 5?

15. The average weight of 8 persons increases by 2.5 kg. When a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

16. 25% of A is same as 40% of B. Find the ratio A:B

17. If A:B = 1:3, B:C = 6:5, what is the value of A:B:C?

18. Three numbers are in the ratio 3:4:5 such that the sum of their squares is 200. What is the middle number?

19. A mixture contains alcohol and water in the ratio 4:3. If 5 litres of water is added to the mixture, the ratio becomes 4:5. Find the quantity of alcohol in the given mixture.

20. 9. In a mixture of 45 litres, milk and water are in the ratio 4:1. If 9 litres of water is added, what will be the ratio of milk and water in the final mixture?

21. The ratio of ages of Sita and Geeta is 4:3. The sum of their ages is 28 years. The ratio of their ages after 8 years will be ?

22. At present Srinu is 8 years older than Suresh. After 15 years, Suresh will be 40 years old. What is Srinu's present age?

23. Tarun is 27 years younger than his mother Rojaramani. 6 years hence, Tarun will be 1/4th as old as his mother. Find the present age of Rojaramani.

24. The average age of Husband and Wife was 23 years, when they were married 5 years ago. But now the average age of the husband, wife and the child is 20 years. What is the present age of the child?

25. The average age of class of 10 students is 15 years. When the age of the teacher is also included, the average will be increased by 1 year. What is the age of the teacher?