Simple Equations

Level -1

1. Two-fifths of a number is 10 more than one-third of the number. Find the number.
   (1) 120   (2) 125
   (3) 150   (4) 160

2. Priya has a certain number of coins in her possession worth Rs. 24 . Of these, half the coins are Rs. 5 coins and the remaining coins are Rs.1 coins. How many coins does she possess?
   (1) 5   (2) 8
   (3) 12   (4) 10

3. Rajesh has a total of five coins of 25 paise and 50 paise. If the total amount with Rajesh is 2 rupees, how many 25 paise coins does he have?
   (1) 3   (2) 2
   (3) 5   (4) 1

4. In a group of cows and hens the total number of legs is 100 and total number of heads is 30. Find the number of cows.
   (1) 10   (2) 15
   (3) 20   (4) 25

5. The cost of three tables and five chairs is Rs. 705, while that of two tables and three chairs is Rs.465. How much would a table and two chairs cost?
   (1) 220   (2) 240
   (3) 300   (4) 260

6. The sum of three consecutive +ve integers is 93. Find the sum of their squares.
   (1) 2702   (2) 2885
   (3) 3074   (4) 2946

7. The sum of three consecutive natural numbers is 75. Find the square of the smallest number.
   (1) 676   (2) 625
   (3) 576   (4) 225

8. The sum of four consecutive integers is 102. Find the product of the extremes.
   (1) 548   (2) 684
   (3) 648   (4) 578

9. If the sum of two numbers is 78 and the sum of 5 times the first number and 3 times the second number is 318, then the smaller number is
   (1) 38   (2) 32
   (3) 36   (4) 28

10. One-third of one half of a number is subtracted from the other half. The difference is again subtracted by one-fourth of the number. If the result is 25, then what is the number?
    (1) 600   (2) 60
    (3) 120   (4) 300

11. 41 is divided into two parts such that, five times the first part added to three times the second part is 179/ What is the larger part?
    (1) 20   (2) 36
    (3) 22   (4) 28

12. When two is added to the numerator of a fraction, the fraction becomes 1/4. When three is subtracted from the denominator the fraction becomes 1/5. Find the fraction.
    (1) 3/8   (2) 5/28
    (3) 7/32   (4) 4/21

13. If two is subtracted from the numerator and one is added to the denominator, the fraction becomes 1/3. But when seven is added to both the numerator and the denominator, the fraction becomes 5/8. Find the fraction.
    (1) 8/17   (2) 12/29
    (3) 4/7   (4) 10/23

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14. In a fraction, the numerator is one less than the denominator. If one is deducted from both the numerator and the denominator the fraction becomes 2/3. Find the fraction.
    (1) 5/6   (2) 3/4
    (3) 4/5   (4) 7/10

15. In a fraction, the numerator is four less than the denominator. When one is added to both the numerator and the denominator the fraction becomes 2/3. Find the fraction.
    (1) 2/6   (2) 4/9
    (3) 7/11   (4) 3/7

16. The difference between a two-digit number and the number formed by reversing the digits is 18. If the sum of the digits is 8, which of the following could be the number?
    (1) 62   (2) 71
    (3) 53   (4) 42

17. The total price of a T.V and a stand is Rs. 9000. In case one buys an additional T.V and two additional stands, an additional amount of Rs. 10,500 is needed. Find the price of a T.V.
    (1) 1500   (2) 7500
    (3) 8000   (4) 6500

18. A boy was asked to multiply a number by 7/11, but instead of multiplying, he divided the number by 7/11 and got his answer 144 more than the correct answer. Find the correct answer.
    (1) 154   (2) 242
    (3) 121   (4) 98

19. Sanjay read $2/7^{th}$ of a book on one day and $2/3^{rd}$ of the remaining on another day. If there were 40 pages unread, how many pages did the book contains?
    (1) 210   (2) 820
    (3) 320   (4) 420

20. Shikha's age 5 years hence would be double that of her age 10 years ago. Find her present age.
    (1) 25 years   (2) 15 years
    (3) 20 years   (4) 10 years

21. Ten years hence, a man will be three times as old as he was ten years ago. Find the present age of the man in years.
    (1) 35   (2) 20
    (3) 30   (4) 15

22. M, N,O and P have Rs. 400 among them. N has an amount equal to that M and P put together. If O has twice that of N, the find the amount with O.
    (1) Rs. 100   (2) Rs. 200
    (3) Rs. 250   (4) Rs. 150

23. A toothpaste and a toothbrush respectively cost Rs. 4 more and Rs 4 less than the amount that Rafiq has. The total cost of the toothpaste and the toothbrush is Rs. 28. Find the amount with Rafiq.
    (1) Rs. 12   (2) Rs. 16
    (3) Rs 18   (4) Rs 14

24. The highest score in an innings is $2/7^{th}$ of the total score and the next highest was $2/7^{th}$ of the remainder. Find the total score if the difference of these two scores is 16 runs.
    (1) 196   (2) 276
    (3) 284   (4) 288

25. A sum of Rs 360 was divided among the students of a class. The boy received Rs 4 each and the girls received Rs 8 each. If the girls had received Rs 3 each, then the boys would have received Rs 6 each. Find the number of students in the class.
    (1) 70   (2) 66
    (3) 38   (4)82

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