

SIMPLE EQUATIONS

1. $\frac{1}{3}$ of a number is 6 more than $\frac{1}{6}$ of the same number. Find the number?
a) 6 b) 18 c) 36 d) 24
2. Four added to half of one-third of one-sixth of a number is equal to $(\frac{1}{12})$ of the number. What is the number?
a) 48 b) 36 c) 72 d) 54
3. If $\frac{2}{3}$ of a number is 20 less than the original number. Find the number?
a) 60 b) 40 c) 80 d) 120
4. Thrice a number is 24 more than one-third of it. Find the number ?
a) 9 b) 12 c) 18 d) 24
5. Solve the equations $3x-2y-5=0$ and $4x-5y-2=0$ for x and y ?
a) 2, 1 b) 3, 2 c) 4, 3 d) 4, 2
6. The sum of 2 numbers is 18 and their difference is 4. Find the numbers?
a) 11, 7 b) 12, 8 c) 16, 2 d) 10, 8
7. The sum of 2 numbers is 5 and the product of the two is 14. What is the sum of the squares?
a) 3 b) -3 c) -13 d) None of these
8. The sum of 3 consecutive odd numbers is 33. Find the sum of the squares of the numbers?
a) 308 b) 251 c) 320 d) 371
9. 5 bags and 7 books together cost Rs. 2350. While 4 books and 10 bags cost Rs. 2200, find the cost of each bag?
a) 40 b) 80 c) 110 d) 120
10. The total cost of five apples and six bananas is Rs.52. If the cost of an apple is Rs.6 more than that of a banana, what is the cost of six apples and five bananas?
a) Rs.48 b) Rs.46 c) Rs.54 d) Rs.58
11. In three hours A can walk 4 kms more than B can walk in four hours. In five hours B can walk 2 km more than A can walk in two hours. What is A's Speed?
a) 3 kmph b) 4 kmph c) 2 kmph d) 5 kmph
12. If Ramu takes six marbles from Somu the number of marbles with them will be equal. If Somu takes one marble from Ramu, Somu will have twice the number of marbles that Ramu has. What is the total number of marbles with both of them?
a) 38 b) 40 c) 42 d) 44
13. A man's age 20 years hence would be thrice his age 20 years ago. Find his present age?
a) 20 b) 40 c) 60 d) 30
14. A man is 5 times as old as his son. In 10 years he will be 4 times as old as his son. Find the son's present age?
a) 30 b) 40 c) 60 d) 150
15. Twenty five years later, a man's age will be three times his age Twenty five years ago. What is the present age of the man, in years?
a) 25 b) 35 c) 40 d) 50
16. At present, the age of two brothers is 41 years and 37 years respectively. How many years ago was the elder brother's age twice that of the younger brother?
a) 33 years d) 32 years c) 31 years d) 29 years
17. The age of the father 10 years ago was thrice the age of his son. 10 years hence the father's age will be twice that of his son. Find the present age of the father?
a) 60 b) 70 c) 50 d) 80

18. 4 years ago, a father was thrice as old as his son. 8 years hence, the father will be twice as old as his son. What is the present age of his son?
a) 16 b) 15 c) 12 d) 10
19. A man is 5 years older than his wife and his wife is now thrice as old as their daughter, who is 10 years old. How old was the man when his daughter was born?
a) 20 yrs b) 23 yrs c) 25 yrs d) 30 yrs
21. A tells B "when I was half of your present age you were $\frac{1}{4}$ th of my present age." If A's present age is 36 what is the B's present age?
a) 18 b) 9 c) 30 d) 27
22. Radha tells Seeta, "I am twice as old as you were when I was as old as you are." Sum of their present ages is 91, find Radha's present age?
a) 26 b) 42 c) 52 d) 29
23. The sum of the digits of a 2 digit number is 9. If the digits are reversed, then the number formed exceeds the original number by 27. Find the number?
a) 63 b) 72 c) 36 d) 27
24. The sum of the digits of a 2 digit number is 8. If 18 is added then the digits get reversed. Find the number.
a) 26 b) 17 c) 35 d) 62
25. The sum of the digits of a 2 digit number is 13. If the number is halved, the sum of the digits of the resultant number is 11. How many such numbers exist?
a) 1 b) 2 c) 3 d) 4
26. The sum of the digits of a 2 digit number is 11. If the number is halved the sum of the digits of the resultant number is 10. How many such numbers exist?
a) 3 b) 4 c) 5 d) 6
27. When you reverse the digits of the number 13, the number increases by 18. How many other 2 digit numbers satisfy this condition?
a) 7 b) 5 c) 6 d) 8
28. When the digits of number 41 are interchanged, it decreased by 27. How many other 2 digit numbers satisfy this condition?
a) 6 b) 5 c) 7 d) 8
29. The denominator of a fraction is 2 more than its numerator. If 1 is added to the denominator the fraction becomes $\frac{3}{4}$. Find the fraction ?
a) $\frac{7}{9}$ b) $\frac{5}{7}$ c) $\frac{11}{13}$ d) $\frac{9}{11}$
30. If the numerator and the denominator of a fraction are increased by 1, the fraction becomes $\frac{3}{5}$. If both are decreased by 1, it becomes $\frac{5}{9}$. Find the fraction ?
a) $\frac{11}{9}$ b) $\frac{11}{19}$ c) $\frac{11}{13}$ d) $\frac{19}{11}$
31. Rekha has only 10 paise and 25 paise coins with her. If she has 70 coins in all worth Rs. 10 with her, how many 25 paise coins does she have?
a) 20 b) 25 c) 40 d) 50
32. A and B receive an amount of Rs. 4750 in notes of denominations Rs.100 and Rs.50. If they receive a total 80 notes, how many 50 rupee notes they receive?
a) 30 b) 40 c) 65 d) 15
33. A student was asked to find $\frac{3}{7}$ th of a number and he instead multiplied it by $\frac{7}{3}$. As a result, he got an answer which was more than the correct answer by 1680. What was the number?
a) 882 b) 273 c) 640 d) 1684
34. In an examination, a student was asked to find $(\frac{3}{14})$ of a certain number. By mistake he found $(\frac{3}{4})$ of it. His answer was 150 more than the correct answer. The given number is
a) 180 b) 240 c) 280 d) 290

35. Find the greater of the 2 numbers such that their sum is 200 and the difference of their squares is 8000?
a) 80 b) 100 c) 120 d) 140
36. Divide 80 into 2 parts such that the sum of their reciprocals is $\frac{4}{75}$?
a) 20, 60 b) 30, 50 c) 35, 45 d) 75, 5
37. $4p + 6E + 5S = 43$; $6P + 9E + 7S = 63$, Then $S =$
a) 3 b) 4 c) 5 d) 6
38. $1P + 2E + 3S = 17$; $3P + 2E + 1S = 19$; $1P + 1E + 1S =$
a) 6 b) 7 c) 8 d) 9
39. There is tank. It is filled up $\frac{1}{4}$ th. On adding 1200 liters of water it becomes $\frac{1}{3}$ rd full. Find the capacity of the tank (in liters) ?
a) 1200 b) 1440 c) 1560 d) 1780
40. P,Q,R had a total of Rs 1250 among them. P had $\frac{3}{7}$ of the total share with Q and R. Find the amount that P had (in Rs)
a) 300 b) 450 c) 525 d) 375
41. A and B together bought 10 balls and 10 rackets. A spent Rs 1300 and B spent Rs 1500. If each racket costs 3 times a ball does, then what is the price of a racket ?
a) 70 b) 90 c) 210 d) 240
42. The ratio of a 2 digit natural number to the number formed by reversing its digits is 4:7. The number of such pairs is
a) 3 b) 4 c) 5 d) 2
43. Ena was born 4 years after her parents marriage. Her mother is 3 years younger than her father and 24 years older than Ena, who is 13 years old. At what age did Ena's father get married (in years)
a) 22 b) 23 c) 24 d) 25
44. Suppose you have sufficient amount of rupee currency in 3 denominations Rs 1, Rs 10 and Rs 50. In how many different ways can you pay a bill of Rs 107 ?
a) 16 b) 17 c) 18 d) 19
45. If $3a+5b+7c = 1.25k$ and $2a+b+3c = 0.75k$ then $7b+5c$ is what percent of k ?
a) 20 b) 25 c) 30 d) 50