Linear Equations in One Variable: Worksheet -9

1. If we divide 180 into two parts such that second part is 12 more than the twice of the first part, then the two parts are [ ]
   a] 56, 124 b] 54, 126 c] 52, 128 d] 50, 130

2. The value of x which satisfies the equation $\frac{5}{x+6} = \frac{2}{3-2x}$ is [ ]
   a] 1/2 b] 1/4 c] 1/6 d] 1/8

3. In a set of three consecutive natural numbers, the sum of the last two numbers is equal to three times the first number. Find the sum of all the three numbers. [ ]
   a] 12 b] 14 c] 16 d] 18

4. If the value of 3 + 2x is equal to 3 – 2x, then value of 5 + 3x is [ ]
   a] 0 b] 2 c] 3 d] 5

5. The sum of five consecutive odd natural numbers is 65. Find the sum of the extreme numbers. [ ]
   a] 26 b] 30 c] 24 d] 32

6. Twelve years hence Ravi's age will be nine times his age twelve years ago; find the present age of Ravi. [ ]
   a] 12 years b] 15 years c] 18 years d] 20 years

7. The sum of the digits of a two-digit number is 9. If 45 is added to the number the digits get reversed. Find the number. [ ]
   a] 18 b] 27 c] 36 d] 45

8. A person says, "Twelve years hence my age will be 3 times my age 12 years ago". Find his present age. [ ]
   a] 32 years b] 20 years c] 24 years d] 15 years

9. Sixteen years hence a man's age will be 9 times his age 16 years ago. Find his age 5 years hence. [ ]

a] 12 years b] 20 years c] 17 years d] 25 years

10. The sum of the digits of a two-digit number is 9. If 27 is subtracted from the number, the digits get reversed. Find the number. [ ]

a] 81 b] 72 c] 36 d] 63

11. Ravi's age now $\frac{1}{5}$th of his father's age. After 20 years if his age will be 20 years less than that of his father, then what will be Ravi's age after 10 years? [ ]

a] 10 years b] 15 years c] 20 years d] 25 years

12. The present age of a father and that of his son are in the ratio 7: 1. After 4 years, the ratio will be 4: 1. What is the son's present age (in years)? [ ]

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

13. After twelve years Ravi's age will be nine times his age twelve years ago, then the present age of Ravi is? [ ]

a] 12 years b] 15 years c] 18 years d] 20 years