**SAINIK SCHOOL GOPALGANJ**

**SUMMER VACATION HOMEWORK**

**SUBJECT-MATHS**

**CLASS: - VIII**

**LINEAR EQUATION IN ONE VARIABLE**

1. If 3*x* – 4 (64 – *x*) = 10, then find the value of *x.*

2. A home-owner is installing a fence around the square garden. The garden has a perimeter of 6480 cm. Find the garden’s dimensions

3. Find the value of *x* for which the expressions 3*x* – 4 and 2*x* + 1 become equal.

4. The sum of three consecutive multiples of 7 is 357. Find the smallest multiple.

5. After 12 years, Kanwar shall be 3 times as old as he was 4 years ago. Find his present age.

6. A carpenter charged Rs. 2500 for making a bed. The cost of materials used is Rs. 1100 and the labour charges are Rs. 200/hr. For how many hours did the carpenter work?

7. Madhulika thought of a number, doubled it and added 20 to it. On dividing the resulting number by 25, she gets 4. What is the number?

8. Present ages of Sita and Raja are in the ratio 4:5. Eight years from now the ratio of their ages will be 5:6. Find their present ages.

9. The ages of Ranu and Raj are in the ratio 5:7. Four years from now the ratio of

their ages will be 3:4. Find their present ages.

10. A grandfather is ten times older than his grand daughter.He is also 54 years older than her. Find their present ages.

11. A positive number is 5 times another number. If 21 is added to both the numbers,

then one of the new numbers becomes twice the other new number. What are the

numbers?

12. There is a narrow rectangular plot, reserved for a school, in sipaya village. The

length and breadth of the plot are in the ratio 11: 4. At the rate Rs 200 per metre it will

cost the village panchayat Rs 75000 to fence the plot. What are the dimensions of the plot?

13. One of the two digits of a two digit number is three times the other digit. If you interchange the digits of this two-digit number and add the resulting number to the original number, you get 88. What is the original number?

14. Elija is a cashier in a bank. She has currency notes of denominations Rs100, Rs 50 and Rs10, respectively. The ratio of the number of these notes is 2:3:5. The total cash with Elija is Rs 4,00,000. How many notes of each denomination does she have?

15. Banka has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs 77, how many coins of each denomination does he have?