SATISH CHANDRA MEMORIAL SCHOOL
CLASS – Vlll
CHAPTER – 2
(LINEAR EQUATIONS IN ONE VARIABLE)

1. Solve the given equation $3\frac{1}{X} \times 5\frac{1}{4} = 17\frac{1}{2}$.

2. Verify that x = 2 is the solution of the equation $4.4X - 3.8 = 5$.

3. The breadth of a rectangular garden is $\frac{2}{3}$ of its length. If its perimeter is 40 m, find its dimensions.

4. Solve for x: $\frac{7X+14}{3} - \frac{17-3X}{5} = 6X - \frac{4X+2}{3} - 5$.

5. Find a number such that when 5 is subtracted from 5 times that number, the result is 4 more than twice the number.

6. Seeta Devi has Rs 9 in fifty-paise and twenty five-paise coins. She has twice as many twenty- five paise coins as she has fifty- paise coins. How many coins of each kind does she have?

7. A number consists of two digits whose sum is 9. If 27 is subtracted from the number the digits are reversed. Find the number.

8. Solve the following equations and verify your answer: $\frac{X+3}{X-3} + \frac{X+2}{X-2} = 2$.

9. Sunita is twice as old as Ashima. If six years is subtracted from Ashima's age and four years added to Sunita's age, then Sunita will be four times Ashima's age. How old were they two years ago?

10. At a party, colas, squash and fruit juice were offered to guests. A fourth of the guests drank colas, a third drank squash, two fifths drank fruit juice and just three did not drink anything. How many guests were in all?

11. A fruit seller buys some oranges at the rate of Rs. 5 per orange. He also buys an equal number of bananas at the rate of Rs. 2 per banana. He makes a profit of 20% on oranges and a profit of 15% on bananas. In the end, he sold all the fruits. If he earned a profit of Rs. 390, find the number of oranges.

12. A lady went shopping and spent half of what she had on buying hankies and gave a rupee to a begger waiting outside the shop. She spent half of what was left of what was left on a lunch and followed that up with a two rupee tip. She spent half of the remaining amount on a book and three rupees on bus fare. When she reached home, she found that she had exactly one rupee left. How much money did she start with?