

8 CLASS Tuition Assignment

ASSIGNMENT = 2

MM-20

Chapter = Linear Equation in One Variable

Submission Date = 14/07/2022

1. Show that $x = 4$ is a solution of the equation $x + 7 - \frac{8x}{3} = \frac{17}{6} - \frac{5x}{8}$
2. Find x for the equation: $(2 + x)(7 - x)/(5 - x)(4 + x) = 1$
3. Divide 40 into two parts such that $\frac{1}{4}$ th of one part is $\frac{3}{8}$ th of the other.
4. Solve : $(x + 3)/6 + 1 = (6x - 1)/3$
5. The digits of a 2-digit number differ by 5. If the digits are interchanged and the resulting number is added to the original number, we get 99. Find the original number.
6. The difference between two positive numbers is 40 and the ratio of these integers is 1 : 3. Find the integers.
7. If the length of the rectangle is increased by 40% and its breadth is decreased by 40%, what will be the percentage change in its perimeter?
8. Five years ago, Anu was thrice as old as Sonu. After ten years, Anu will be twice as old as Sonu. How old are Anu and Sonu?
9. The denominator of a fraction is greater than the numerator by 8. If the numerator is increased by 17 and denominator is decreased by 1, the number obtained is $\frac{3}{2}$. Find the fraction.
10. Jane is 6 years older than her younger sister. After 10 years, the sum of their ages will be 50 years. Find their present ages.