पुणा International School

Shree Swaminarayan Gurukul, Zundal

CLASS-8

SUB-MATHS

LINEAR EQUATIONS IN ONE VARIABLE

WORKSHEET

Solve the following questions.

1. $x-2=7$

2. $y+3=10$

3. $\frac{3}{7}+x=\frac{17}{7}$

4 $\frac{2x}{3}=18$

5 $7x-9=16$

6. $14y-8=13$

7. $\frac{x}{3}+1=\frac{7}{15}$

8. $5t-3=3t-5$

9. $2x-1=14-x$

10. $8x+4=3(x-1)+7$

11. $\frac{2x}{3}+1=\frac{7x}{15}+3$

12. $2y + \frac{5}{3} = \frac{26}{3} - y$

MAKE EQUATION AND SOLVE

1. Amina thinks of a number and subtracts $\frac{5}{2}$ from it. She multiplies the result by 8. The result now obtained is 3 times the same number she thought of. What is the number?

2. 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?

3. 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?

4 Shobo's mother's present age is six times Shobo's present age. Shobo's age five years from now will be one third of his mother's present age. What are their present age?

5 grandfather is ten times older than his granddaughter. He is also 54 years older than her. Find their present ages.

6. Aman's age is three times his son's age. Ten years ago he was five times his son's age. Find their present ages

7. The ages of Hari and Harry are in the ratio 5 : 7. Four years from now the ratio of their ages will be 3 : 4. Find their present ages.

8. The denominator of a rational number is greater than its numerator by 8. If the numerator is increased by 17 and the denominator is decreased by 1, the number obtained is $\frac{3}{2}$. Find the rational number.