

ACTIVITY -4

TOPIC: SIMPLE EQUATIONS

TITLE: GENERATE MATHEMATICAL EQUATION

1. **What we have to do?**

To produce mathematical equations.

2. **What is required?**

A drawing sheet, sketch pens, a pair of scissors, geometry box and a calendar.

3. **How much time is required?**

30 minutes

4. **What do you need to know?**

Knowledge of Constants, variables and basic operations on variables.

5. **How will you proceed?**

a. Take a calendar and choose any month

b. Now select any 4 dates from the month chosen that form a square e.g.



Fig.1

c. Add the four selected numbers (dates) which you have chosen.

d. Let the first number(date) be x . Therefore, the other numbers will be $x + 1$, $x + 8$ and $x + 7$.

e. Now add all the numbers in terms of x and put it equal to the sum of original numbers.

f. Add the like terms and evaluate to find the value of x which will give you the first number.

g. Add 1,7 and 8 to the first number to get the other numbers.

6. **What have you observed?**

- Add the numbers diagonally and compare their sum.

7. **What have you learnt?**

8. **Extended Activity**

a) What mathematical sign will replace * if $x = 4$ is a solution of the equation

i) $4x * 4 = 12$

ii) $5x * 2 = 22$

b) Construct any three equations from your day to day life with the solution $x = 2$.

Real life Applications:

The above concept is used in our day-to-day life incidents viz. comparing rates of pay, planning a budget, making predictions, in kitchen, in banking operations etc....