

ACTIVITY 2

Subject	MATHEMATICS
Class	VIII
Chapter/Unit	LINEAR EQUATIONS IN ONE VARIABLE
Topic	SOLUTION OF A LINEAR EQUATION
Time	30 minutes
Nature of Activity	Individual

What will I learn(Learning outcome)?

Finding a solution of a linear equation

Skills:- Visualizing, Creating , Accuracy, Precision

What I have to do?

To develop the concept of linear equations using paper cut outs.

What do I require?

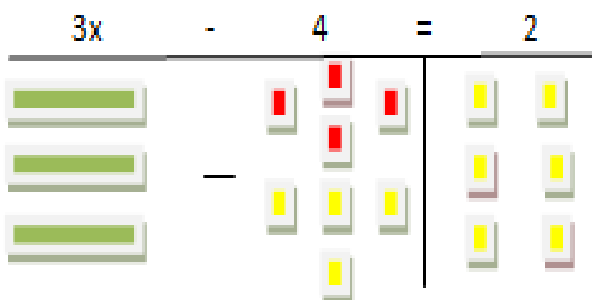
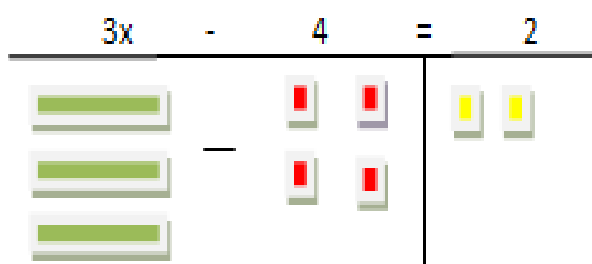
Sheets of paper, coloured cut outs in the shape of squares and rectangles.

What do I need to know?

Knowledge of constants and variables.

How will I proceed?

- Consider the equation $3x - 4 = 2$.
- Cut 10 yellow squares, 3 green rectangles and 4 red squares.
- Arrange as shown, 3 green rectangles and 4 red squares on one side and 2 yellow squares on the other side .



$$3x - 4 = 2$$

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What have I observed?

The solution of the equation is given by $x = \underline{\hspace{2cm}}$

What have I learnt?

To find the solution of a $\underline{\hspace{2cm}}$ equation.

What am I curious to know?

Use the above method to solve the equation $2x - 3 = 5$

Let me evaluate myself

1. Solve for x : $5(x - 1) - 2(x + 8) = 0$

2. Simplify: $4(3p + 2) - 5(6p - 1) = 2(p - 8) - 6(7p - 4)$

3. Sum of the digits of a two-digit number is 11. The given number is less than the number obtained by interchanging the digits by 9. Find the number.

4. The present age of father is four times the age of his son. After 10 years, age of father will become three times the age of his son. Find their present ages.

5. The solution of the equation $ax + b = 0$ is _____.