

POLYNOMIALS

Activity – 2

1. What we have to do?

To find the zeroes of polynomial $x^2 + 5x + 6$ using paper cutting and pasting

2. What is required?

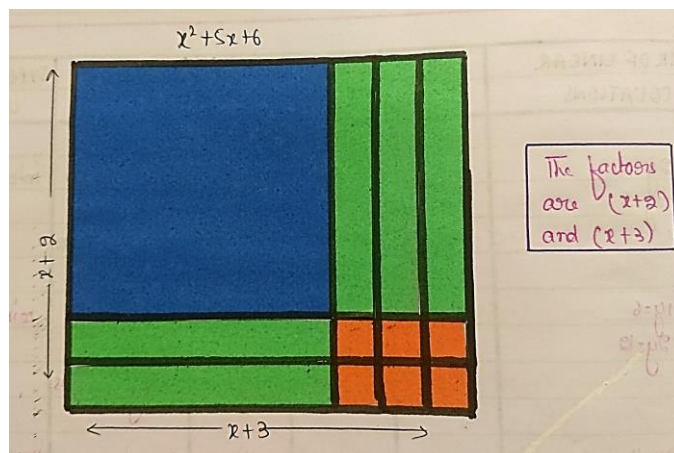
Origami sheet, scissors, scale, pencil, eraser, glue

3. What do you need to know?

Area of square and a rectangle

4. How will you proceed?

- Cut a big square of dimension (5×5) cm
- Six small squares of dimension (1×1) cm
- Five rectangles of dimension (5×1) cm
- Arrange all squares and rectangles to form a rectangle



5. What have you observed?

Zeroes of the polynomial are _____ and _____

6. What have you learnt?

7. What would you be interested in doing?

Repeat the above steps to factorize $x^2 + 7x + 12$ geometrically

Real Life Applications:

The above concept is used in Construction, Aerospace, Optimization, Packaging, building of bridges and Financial planning etc..
