CLASS – 8

Activity 1: Fold a paper 8 times in any way. Unfold and locate various convex and concave polygons.

Activity 2: To verify that the sum of interior angles of a quadrilateral is 360^0 by paper cutting and pasting.

Activity 3: To verify that the sum of measures of the exterior angles of any polygon is 360^0 by paper cutting and pasting.

(Note: Verify the result for a triangle, quadrilateral, pentagon and hexagon)

Activity 4: To make the following by paper folding and cutting

a. a kite
b. a rhombus

Activity 5: To verify that

i) diagonals of a rectangle are of equal length
ii) diagonals of a square are of equal length
iii) Investigate the results for a rhombus and a parallelogram
, using stretched threads.

Activity 6: (Group Activity)

a) Do a survey of your class and collect the data from all students of your class who spent more than 4 hours in watching TV. Represent the collected data, in the form of a histogram by paper cutting and pasting.

b) Write how much you spent during a day in the following headings

i) school ii) homework iii) play iv) sleep
v) watching TV vi) others
Represent the information in a Pie chart.

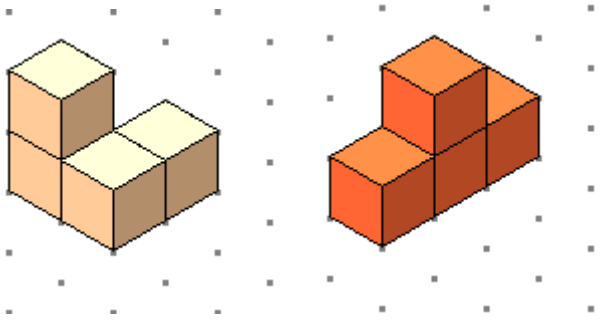
Activity 7: To observe the following number patterns and generate it up to next three steps

i) $1^2 =$ 1
$11^2 =$ 1 2 1
$111^2 = 1$ 2 3 2 1

ii) $1+3 = 4 = 2^2$
$1+3+5 = 9 = 3^2$
$1+3+5+7 = 16^2 = 4^2$

(Note: Teacher may take any other such number patterns)

Activity 8: Draw front view, top view and side view of the following shapes made by unit cubes.



Activity 9: To make cubes and cuboids of given dimensions using unit cubes and to calculate volume of each.

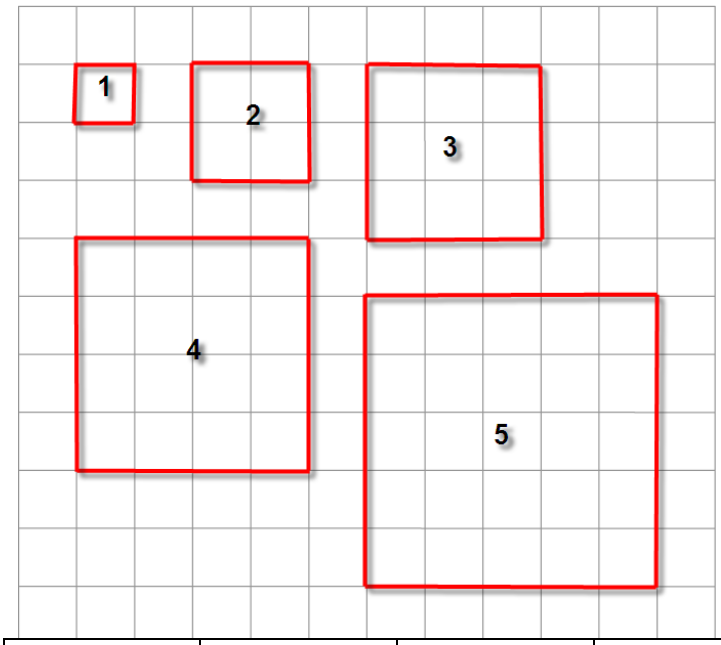
(i) 4x3x2
(ii) 3x3x3

Activity 10: To explore the relationship between

(i) Length (in cm) and perimeter (in cm)

(ii) Length (in cm) and area (in cm^2)

of 5 squares of different dimensions drawn on a squared paper.



Length of a side (L)	Square 1	Square 2	Square 3	Square 4	Square 5
Perimeter (P)					
Area (A)					
P/L					
A/L					