LIST OF HANDS-ON ACTIVITIES IN MATHEMATICS

Mathematics Laboratory

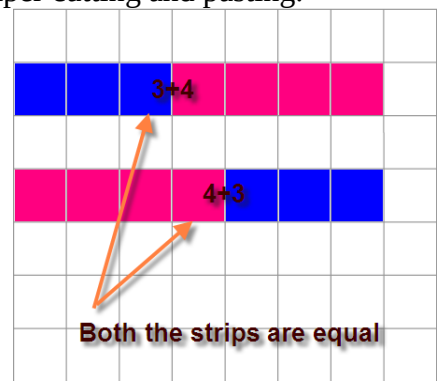
The concept of Mathematics Laboratory has been introduced by the Board in its affiliated schools with the objective of

- Making teaching and learning of the subject interactive, participatory, funfilling and joyful from primary stage of schooling.
- Strengthening the learning of mathematical concepts through concrete materials and hands-on-experiences.
- Relating classroom learning to real life situations and discourage rote and mechanical learning.

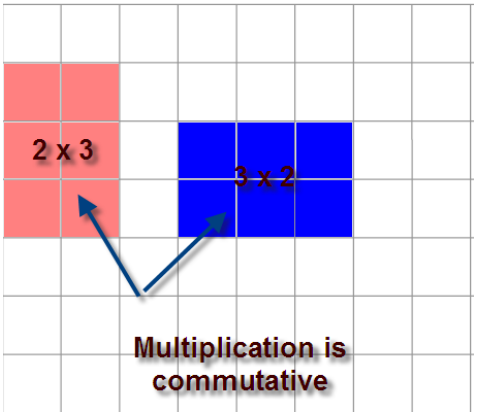
Given below is the list of activities to be done by the students in classes VI during each academic year.

GRADE 6

Activity 1: (a) To verify that addition is commutative for whole numbers, by paper cutting and pasting.

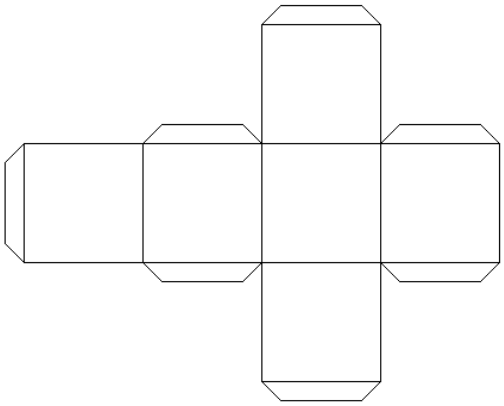


(b) To verify that multiplication is commutative for whole numbers by paper cutting and pasting.

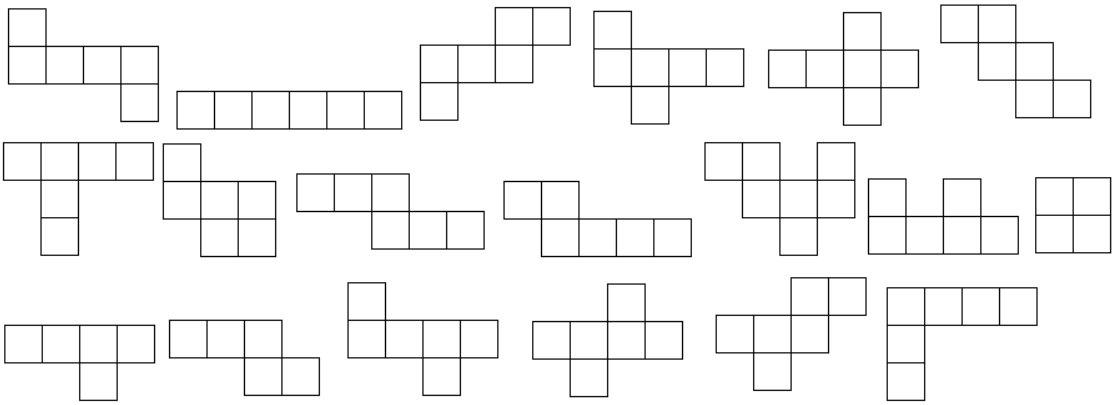


Activity 2: To find prime numbers from 1 to 100 by Eratosthenes Sieve's method.

Activity 3: (a) to make a cube using the given net and count the number of faces, vertices and edges.



3 (b) To check which of the given nets can be folded to get a cube.



Activity 4: To find the HCF of two given numbers by paper cutting and pasting.

Activity 5: To find the LCM of two given numbers by using number grid.

Activity 6 (i) Make a line segment of length 5 cm on a paper and do the following by paper folding.

(a) Make a perpendicular line from a point on a given line.
(b) Make two intersecting lines.
(c) Make two parallel lines.

(ii) Do the following by paper folding using a circular cut-out.

(a) make a chord
(b) make the diameter
(c) shade minor and major segment
(d) make a sector of a circle.

(iii) Represent the following by paper folding

(a) straight angle
(b) right angle
(c) acute angle
(d) obtuse angle
(e) reflex angle

(iv) Make a protractor by paper folding.

Activity 7: To classify the triangles on the basis of sides and angles from the given set of triangles.

Activity 8: To make the following shapes using a pair of set squares.

i) square (ii) rectangle (iii) parallelogram (iv) rhombus
(v) trapezium

Activity 9: To represent decimal numbers 0.25, 0.5, 0.75, 0.68 etc on a 10x10 grid by shading.

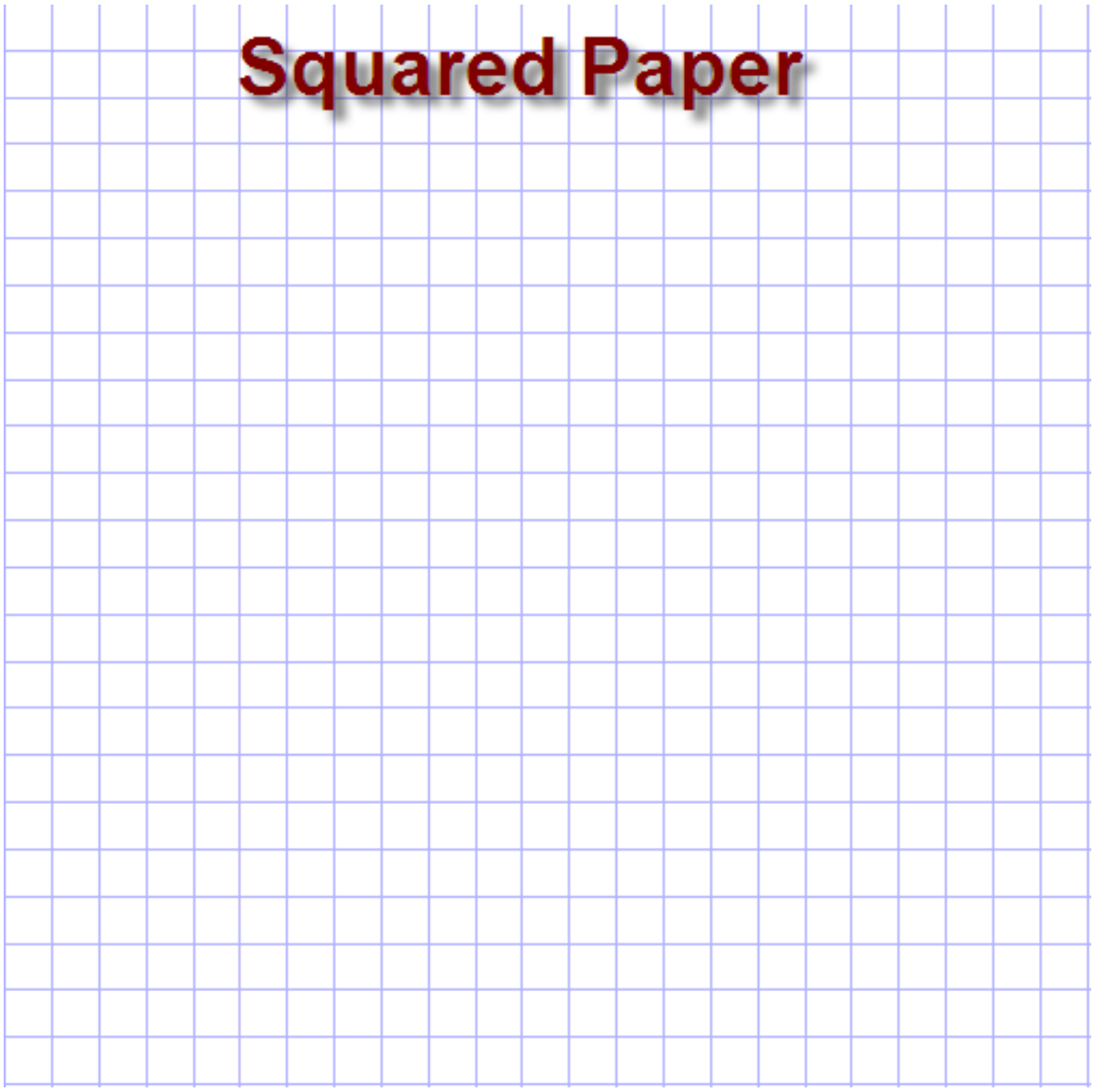
Activity 10: To determine the number of lines of symmetry of following shapes by paper folding.

(a) equilateral triangle
(b) isosceles triangle
(c) square

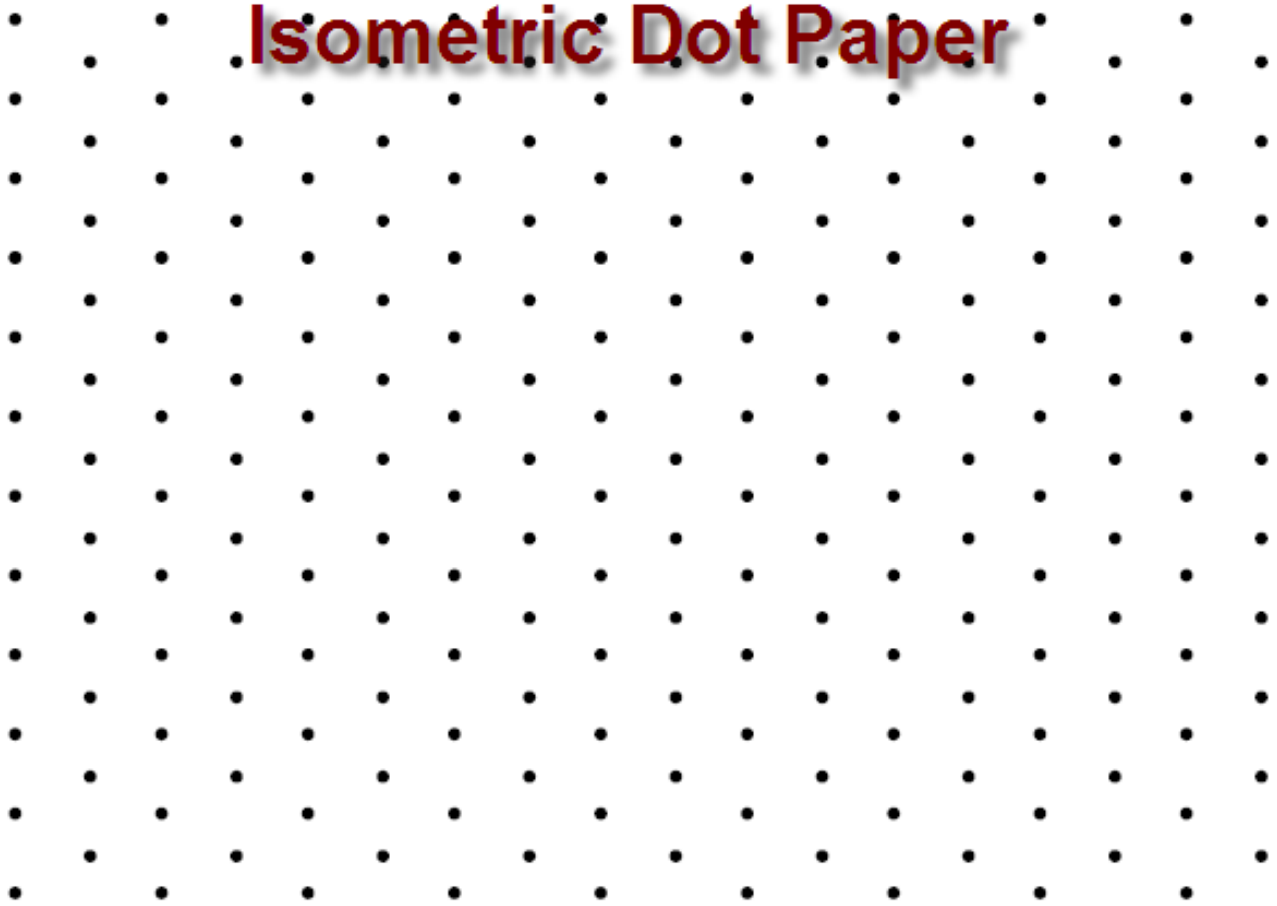
(d) rectangle
(e) rhombus

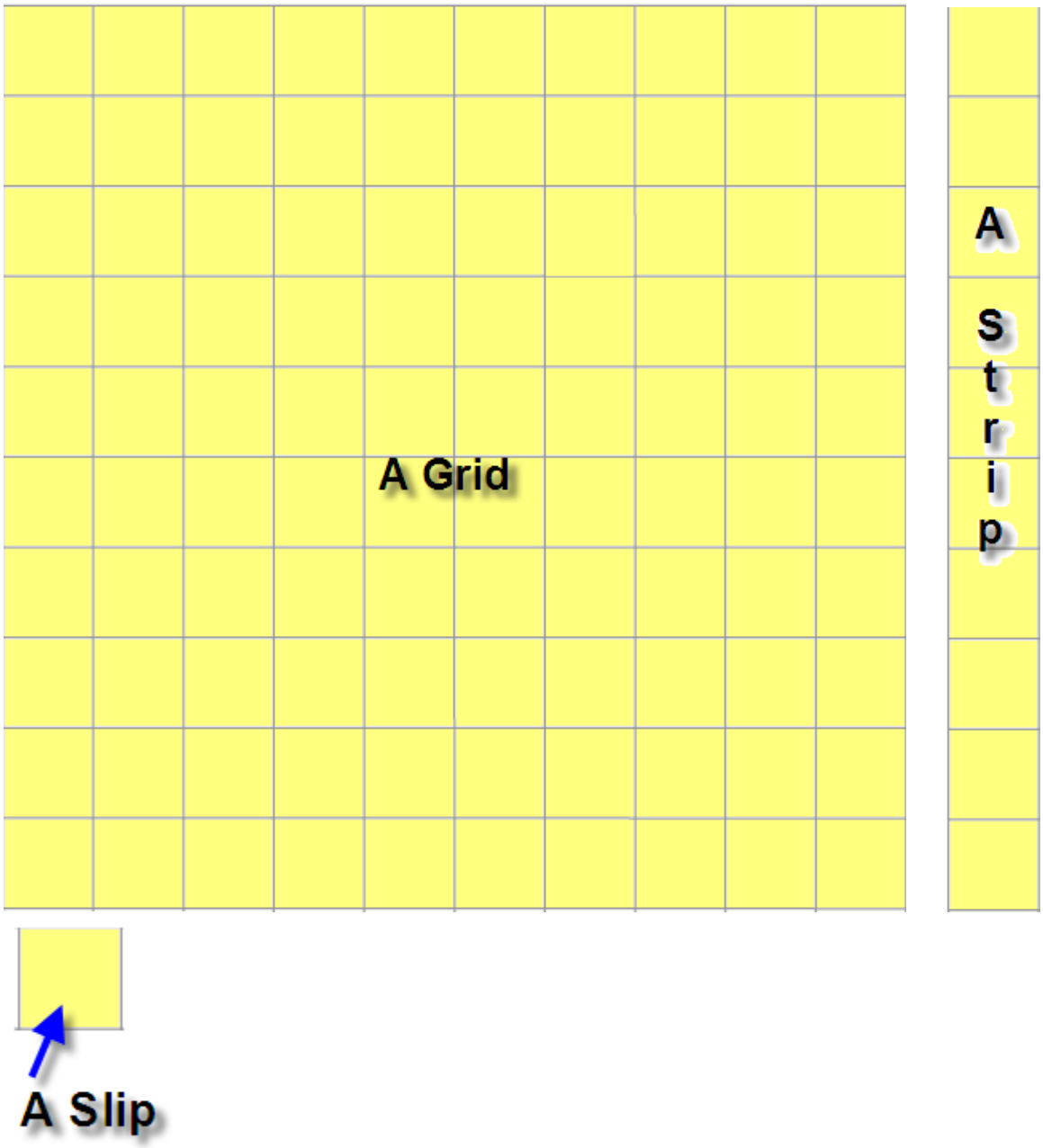
List of materials for performing activities in Mathematics Lab

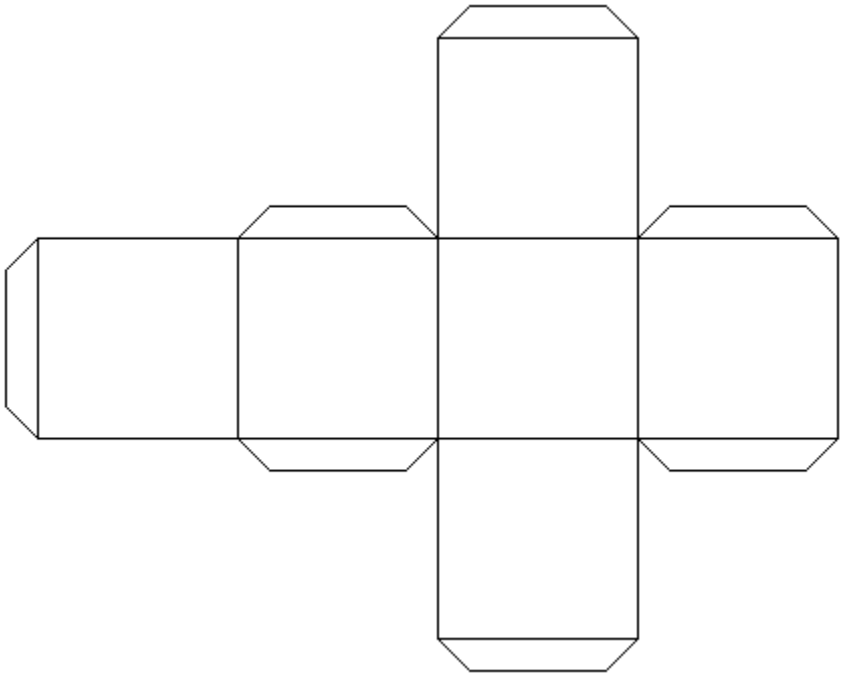
- Net of a cube
- Squared paper
- Coloured paper/ origami paper
- Grid paper
- Circular papers
- Rectangular paper
- Net of prism and pyramid
- Paper strips
- Coloured buttons/ counters
- Grid paper
- Cut-outs of equilateral triangle, isosceles triangle, square, rectangle, rhombus
- Plastic English alphabet set
- Pair of scissors
- Glue


Squared Paper

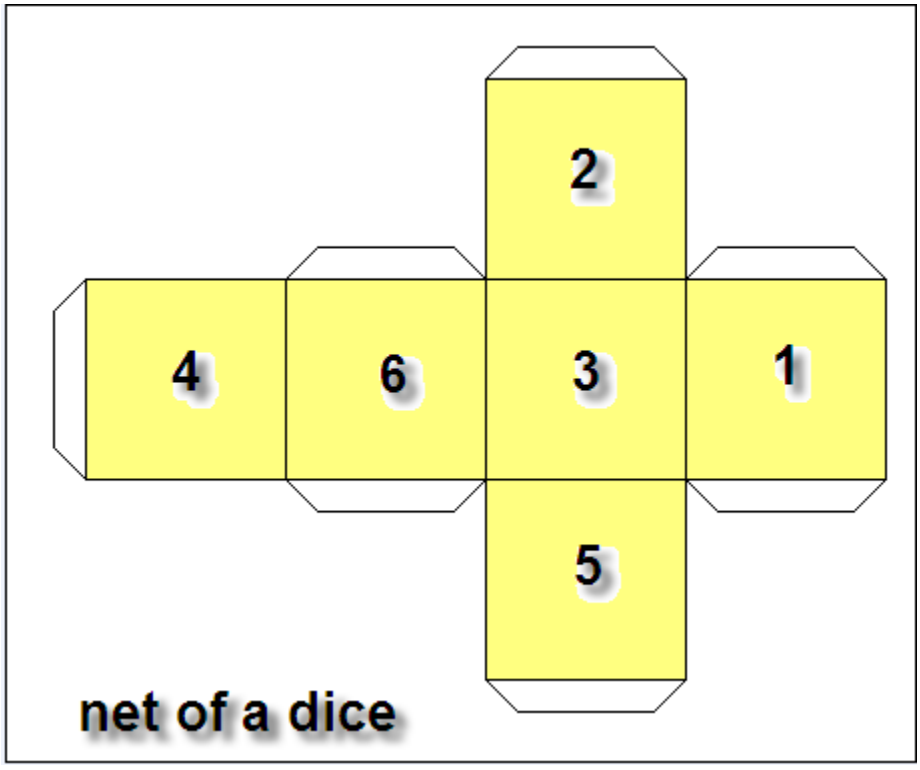
Isometric Dot Paper



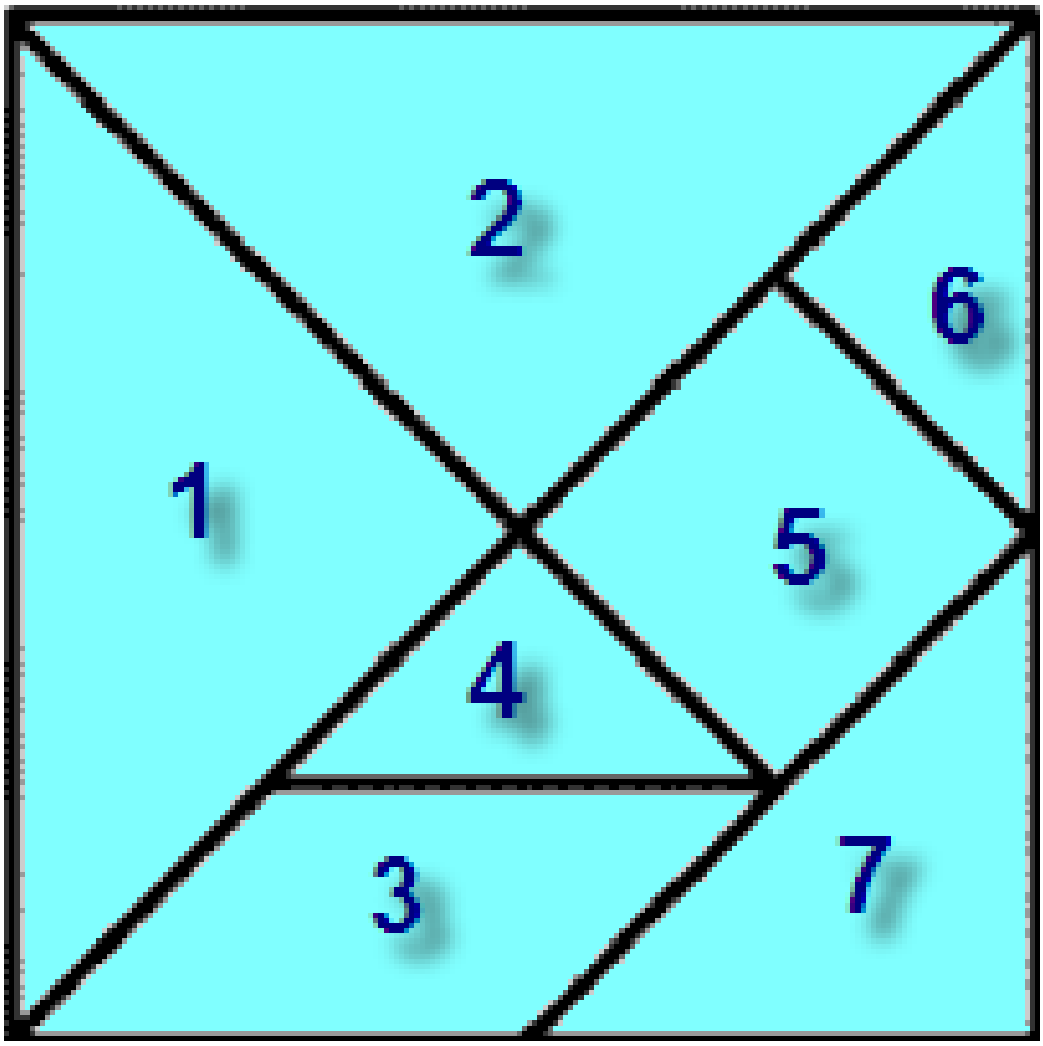

A Grid
A Strip
A Slip



Net of a cube



Tangram



Tangram on 8 X 8 Squared paper