

ACTIVITY 1

To fold a paper 8 times in any way. Unfold and locate various convex and concave polygons.

Learning Objective : To identify concave and convex polygons.

Pre-requisite : Knowledge of concave and convex polygons.

Materials Required : Paper sheets, a pencil and a ruler.

Procedure :

Step 1. Take a rectangular sheet of paper as shown in Fig. 1(a).

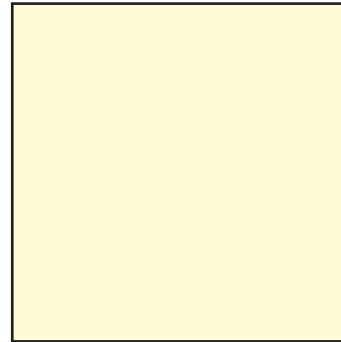


Fig. 1(a)

Step 2. Fold it in any way as shown in Fig. 1(b) and then unfold it. Draw a line on the crease using a ruler and pencil.

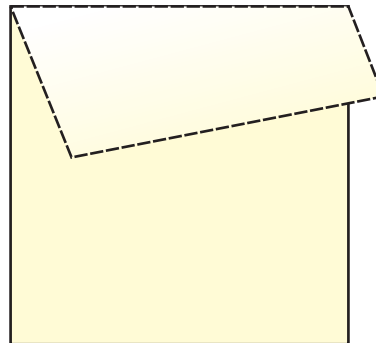


Fig. 1(b)

Step 3. Repeat this process 7 more times. Every time draw a line on the crease.

Step 4. Make the points of intersections as A, B, C, D, [Fig. 1(c)]

Step 5. Identify polygons having more than 3 sides in Fig. 1(c) and examine whether they are convex or concave.

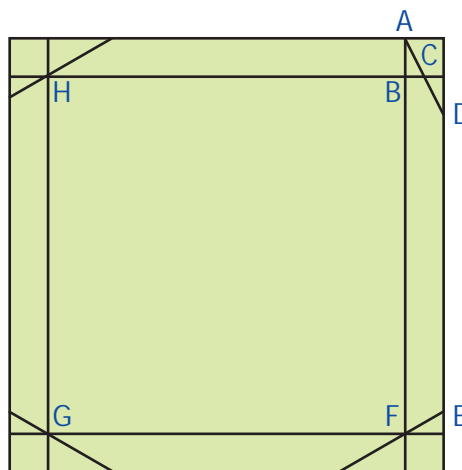


Fig. 1(c)



Observations :

Complete the following table :

Polygon	Number of sides	Convex	Concave
	4	Yes	No
	5	No	Yes

Extension : Identify a triangle, quadrilateral, a pentagon, a hexagon, if any, and determine whether it is convex or concave.