

Explain that there are many different kinds of shapes. A polygon is flat 2-dimensional shape made up of three or more line segments (you might draw a square and then a cube on the board to show the difference between a 2D and a 3D shape.) For a shape to be considered a polygon, it must satisfy the following rules:

- 1) The sides are made of three or more line segments only.
- 2) The sides are connected end-to-end and make a closed path.
- 3) The sides do not cross.

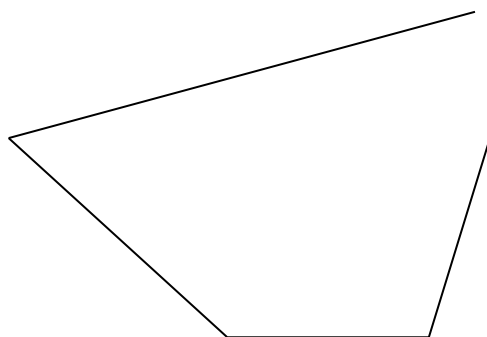
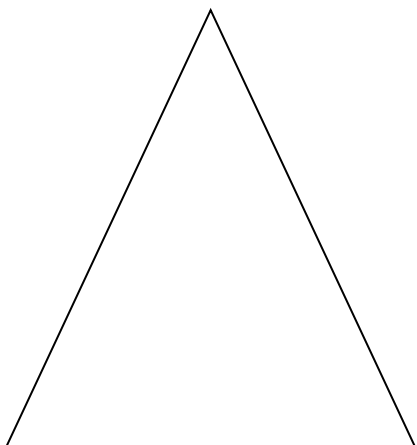
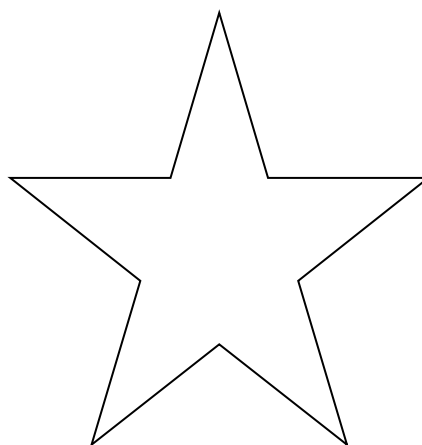
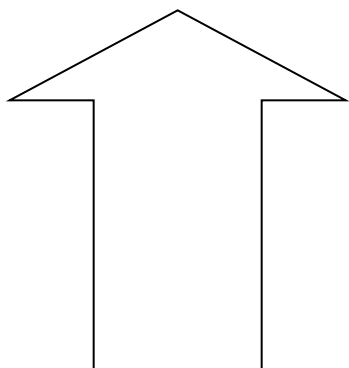
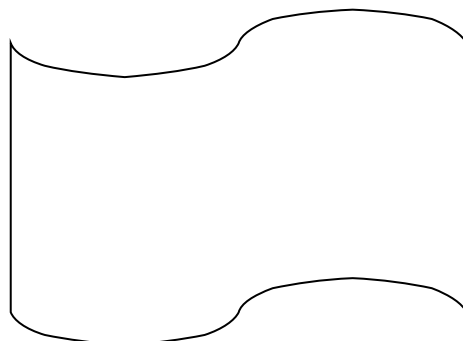
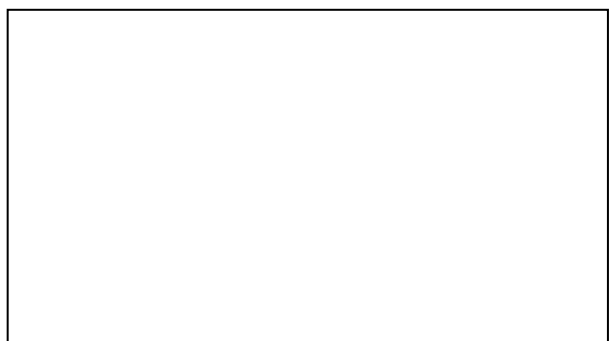
Write these three rules on the board. Draw a simple polygon on the board (e.g. triangle or square). Go through the rules one by one to show that the shape is a polygon).

Now show the shapes on the two **Polygon and Non-Polygon sheets**. Ask for volunteers to help the class decide whether each shape is a polygon or not.

MATERIALS:

-Polygon and Non-Polygon sheet

Polygons and Non-Polygons (Page 1)



Polygons and Non-Polygons (Page 2)

