

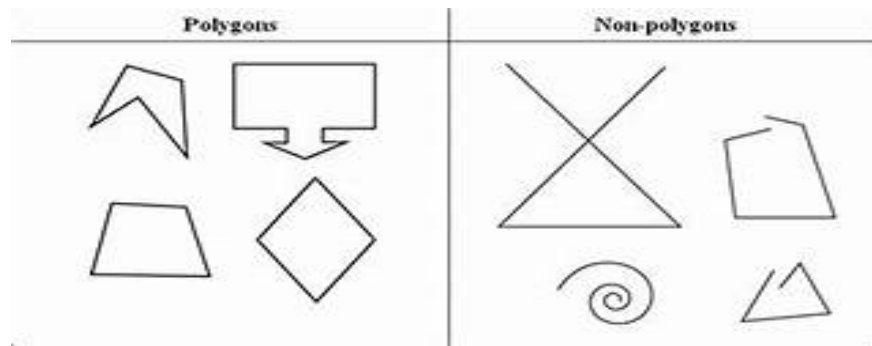
POLYGONS Instructional Sheet

Polygons are fancy words for multi-angled shapes!
'Poly' means many, and 'gon' means the angle in a shape.

All Polygons need to meet the following 3 conditions:

- 1) it needs to be a closed shape
- 2) it needs to have straight sides
- 3) only 2 sides meet at a vertex

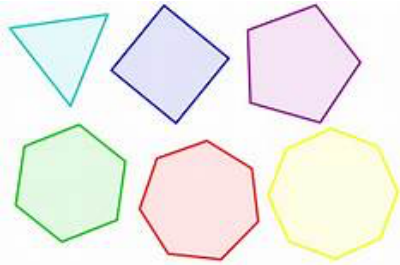
The 4 images are non-polygons because they do not fit any of the three above conditions.



There are 4 types of Polygons:

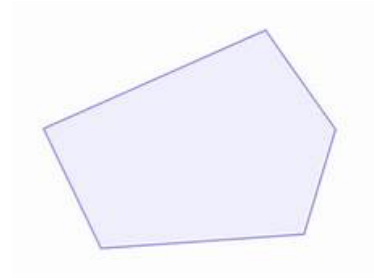
1) Regular Polygon:

- all the sides and angles are equal



2) Irregular Polygon:

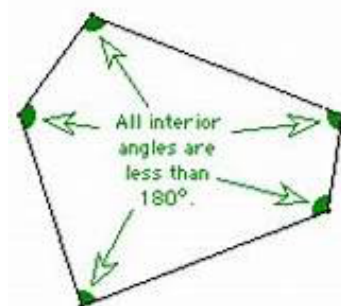
- all the sides and angles are NOT equal



3) Convex Polygon:

- all the angles are less than 180°

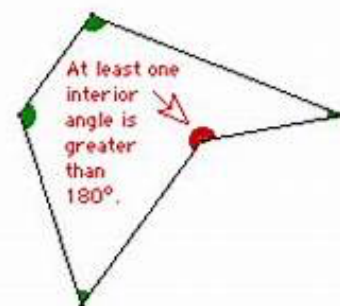
CONVEX PENTAGON



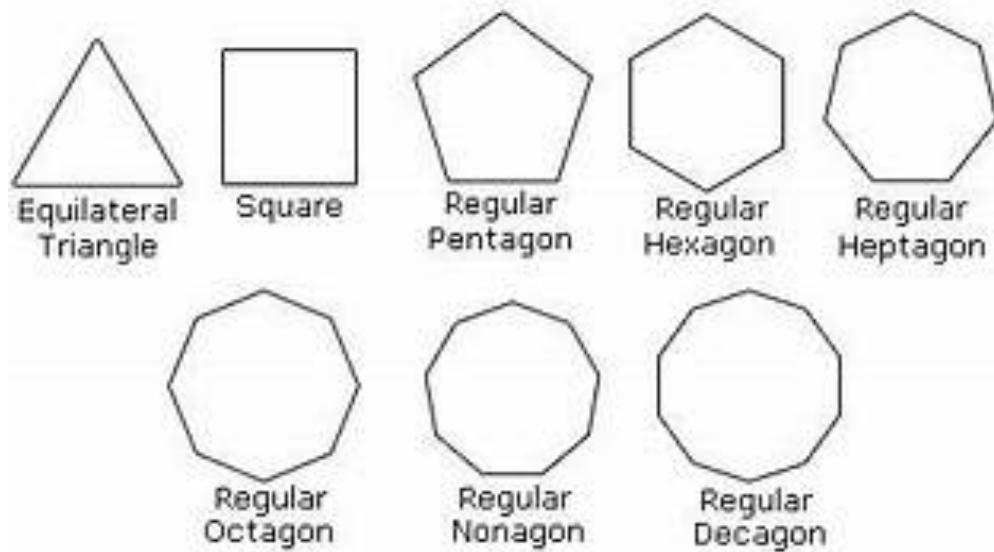
4) Concave Polygon:


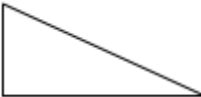
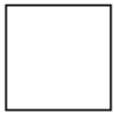
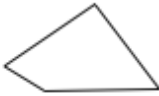






- has at least one angle greater than 180°

CONCAVE PENTAGON



There are many types of **REGULAR** and **IRREGULAR** polygons. You know them as...



Regular and Irregular Polygons			
Name	Regular	Irregular	Number of Sides
<i>Triangle</i>			3
<i>Quadrilateral</i>			4
<i>Pentagon</i>			5
<i>Hexagon</i>			6
<i>Octagon</i>			8