POLYGONS

<u>Definition</u>: A polygon is a closed plane figure made up of 3 or more line segments.

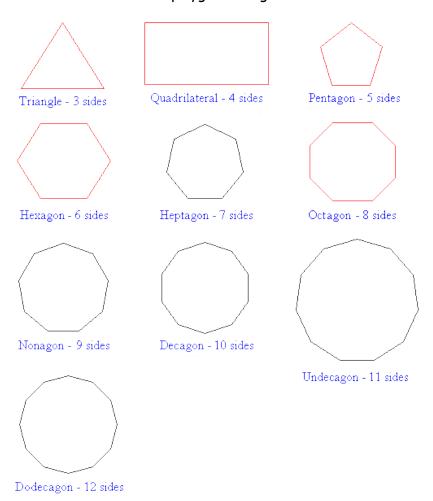
Polygons are named according to the number of sides.

For example, a polygon with three sides is called a triangle.

A polygon with four sides is called a quadrilateral.

A polygon with five sides is called a pentagon.

Examples: The names of the most common polygons are given below:



Exercise: Identify the set hat shows the polygons arranged in the decreasing order of number of sides.

Choices:

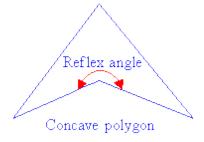
- A. Octagon, hexagon, pentagon, and quadrilateral
- B. Pentagon, hexagon, octagon, and quadrilateral
- C. Quadrilateral, pentagon, hexagon, and octagon
- D. Hexagon, pentagon, quadrilateral, and octagon

Your answer:

Concave Polygon

If a polygon has a reflex angle, then it is said to be a concave polygon.

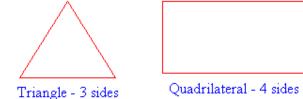


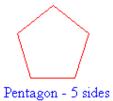


Convex Polygon

If a polygon has no reflex angle, then it is said to be a convex polygon.

Examples:

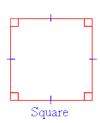


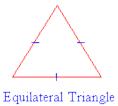


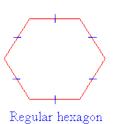
Regular Polygon

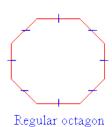
A regular polygon's sides are all of the same length and its angles are the same size.

Examples:









Irregular Polygon

If a polygon is not a regular polygon, then it is said to be an irregular polygon.

Example:

