## POLYGONS

Definition: 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:


Triangle - 3 sides


Hexagon - 6 sides


Nonagon - 9 sides


Dodecagon-12 sides


Quadrilateral-4 sides


Heptagon - 7 sides


Decagon-10 sides

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 : $\qquad$

## Concave Polygon

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


Concave polygon

## Convex Polygon

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


Triangle - 3 sides



## Regular Polygon

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


Regular octagon

## Irregular Polygon

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


Quadrilateral

