# TWO-DIMENSIONAL SHAPES

Unit Overview

In this unit you, will be exploring two-dimensional shapes. You will be able to identify 2D shapes and count and compare sides and vertices. You will also learn that two shapes that look alike and are the same size are congruent.

Regular Polygons

A **polygon** is a plane (2D) shape with straight sides.

To be a **regular polygon**, all the sides and angles must be the same.
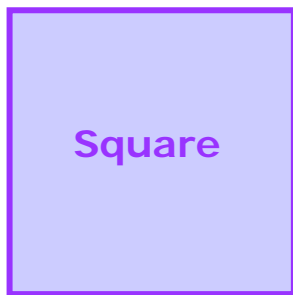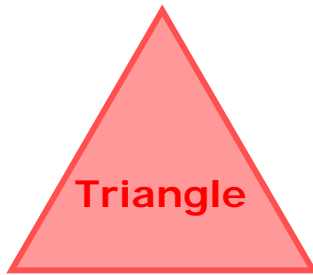
Polygon	Number of Sides	Number of Vertices
Triangle	3	3
Square	4	4
Pentagon	5	5
Hexagon	6	6
Heptagon	7	7
Octagon	8	8
Nonagon	9	9
Decagon	10	10

Triangle

Square

Pentagon
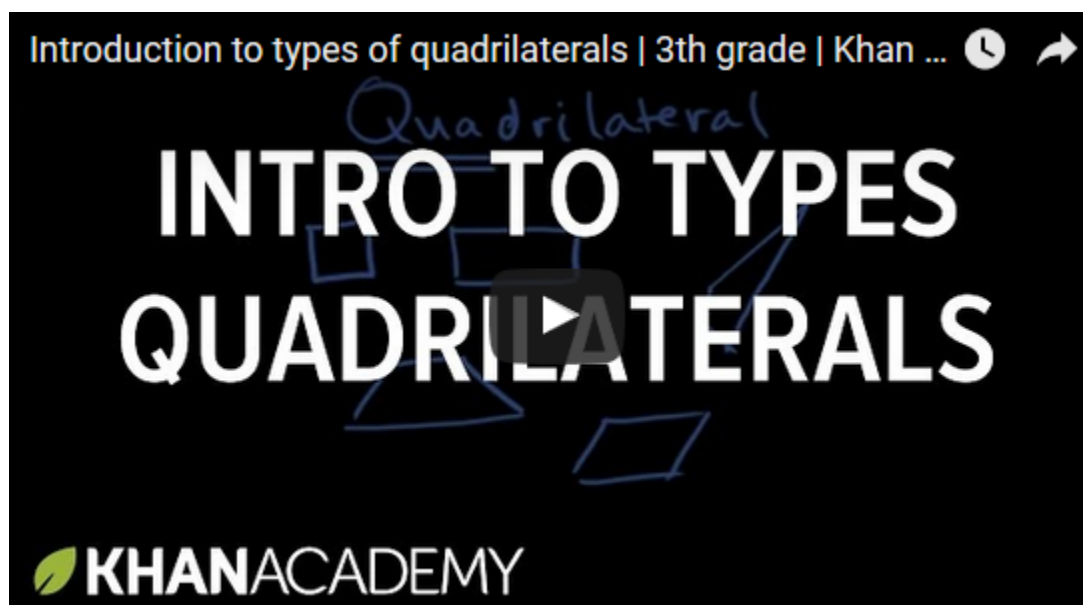
Hexagon

Heptagon

Octagon

Decagon

Nonagon

Other Common Polygons

A quadrilateral and a rectangle are polygons with four sides.

Polygon	Number of Sides	Number of Vertices
Quadrilateral	4	4
Rectangle	4	4

Quadrilateral

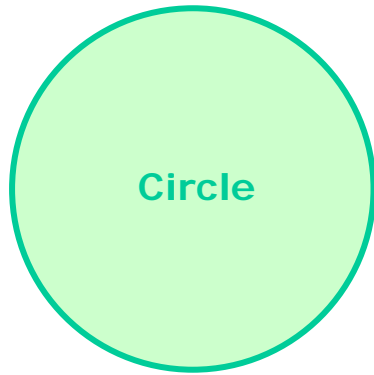**Any 4 sided 2D Shape**

Rectangle

All right angles
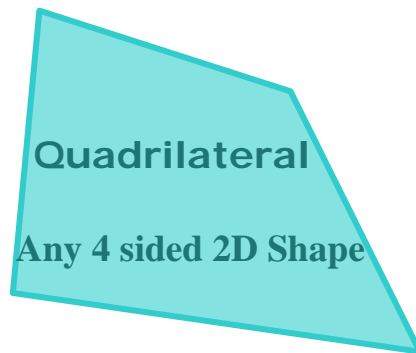
Click on the link to watch the video "Introduction to types of quadrilaterals".

Curved Shapes

These 2D shapes have curves, so are not polygons:
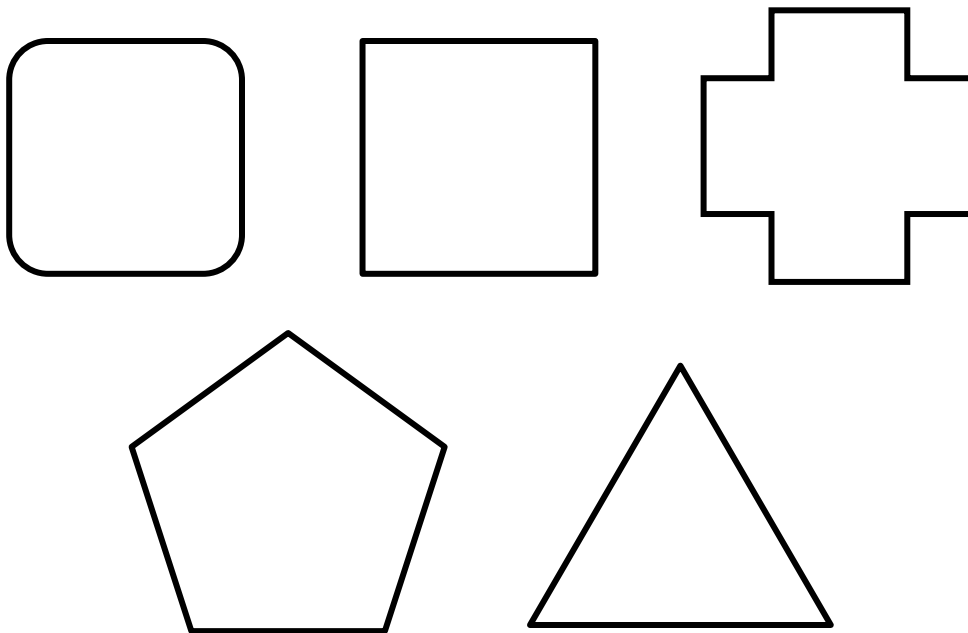
Circle

Ellipse

Open and Closed Figures

These figures are open:
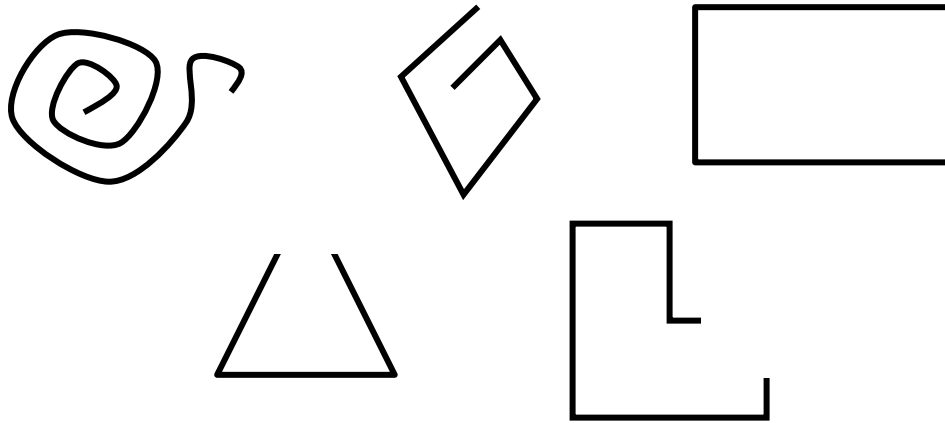
These figures are closed:

Congruent Figures

Congruent figures are figures that are the exact size and shape.