Polygons, Pyramids and Prisms Fact Sheet

Polygons have straight sides that are joined.

A polygon with 3 sides is a **triangle**.

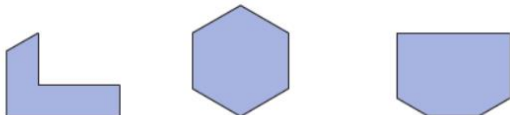A polygon with 4 sides is a **quadrilateral**.

Squares and rectangles are quadrilaterals.

A polygon with 5 sides is a **pentagon**.

A polygon with 6 sides is a **hexagon**.

A polygon with 8 sides is an **octagon**.

These are not polygons because the sides do not join, or not all the sides are straight.
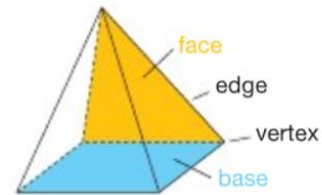
➤ A pyramid has 1 **base**. The base is a **face**.
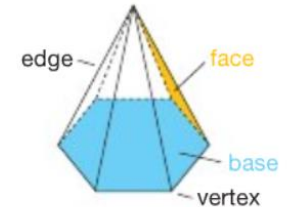A pyramid has some faces that are triangles.

This pyramid has 5 vertices, 8 edges, and 5 faces:
- 1 square
- 4 triangles

face
edge
vertex
base

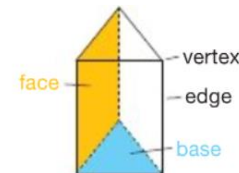This pyramid has 7 vertices, 12 edges, and 7 faces:
- 1 hexagon
- 6 triangles

edge
face
base
vertex

➤ A prism has 2 bases that are the same.
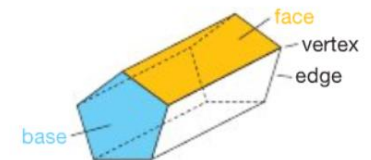A prism has some faces that are rectangles.

This prism has 6 vertices, 9 edges, and 5 faces:
- 2 triangles
- 3 rectangles

face
vertex
edge
base

This prism has 10 vertices, 15 edges, and 7 faces:
- 2 pentagons
- 5 rectangles

face
vertex
edge
base

A prism has rectangular faces.