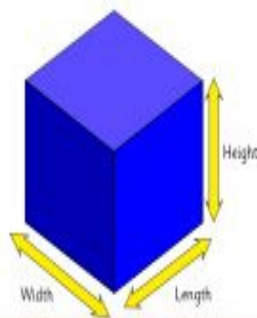


3D Shapes

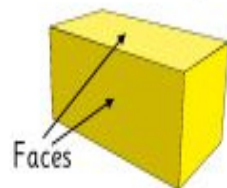
Every 3-dimensional shape has three measurements to describe it: **height, length and width.**



3D Shapes

Faces

A face is one of the flat sides of a three-dimensional shape.

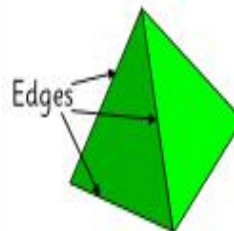


A cuboid has 6 flat faces. This cuboid has 2 square faces and 4 rectangular faces.

3D Shapes

Edges

An edge is the line where two faces touch.



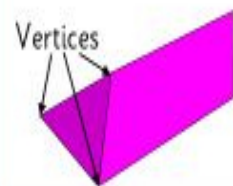
A square-based pyramid has 8 edges.

3D Shapes

Vertices

Vertices are the corners of a 3D shape, where three or more edges meet.

A single corner is called a **vertex.**



A triangular prism has 6 vertices.

3D Shapes

Prisms



The two opposite faces are the same shape.



If you cut a prism anywhere along its length, the two opposite faces will remain the same shape and size as the original.



3D Shapes

Prisms



A prism always has the same shape at either end.

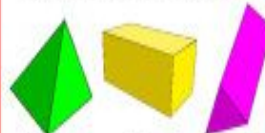
A prism will always have rectangular faces on the sides.



3D Shapes

Polyhedrons

Polyhedron is a 3D shape with flat faces and straight edges.



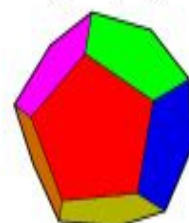
A **regular polyhedron** is a 3D shape with all the faces the same shape.



3D Shapes

Dodecahedrons

This is a **dodecahedron.** It is a regular polyhedron.



Its 12 faces are all regular pentagons.