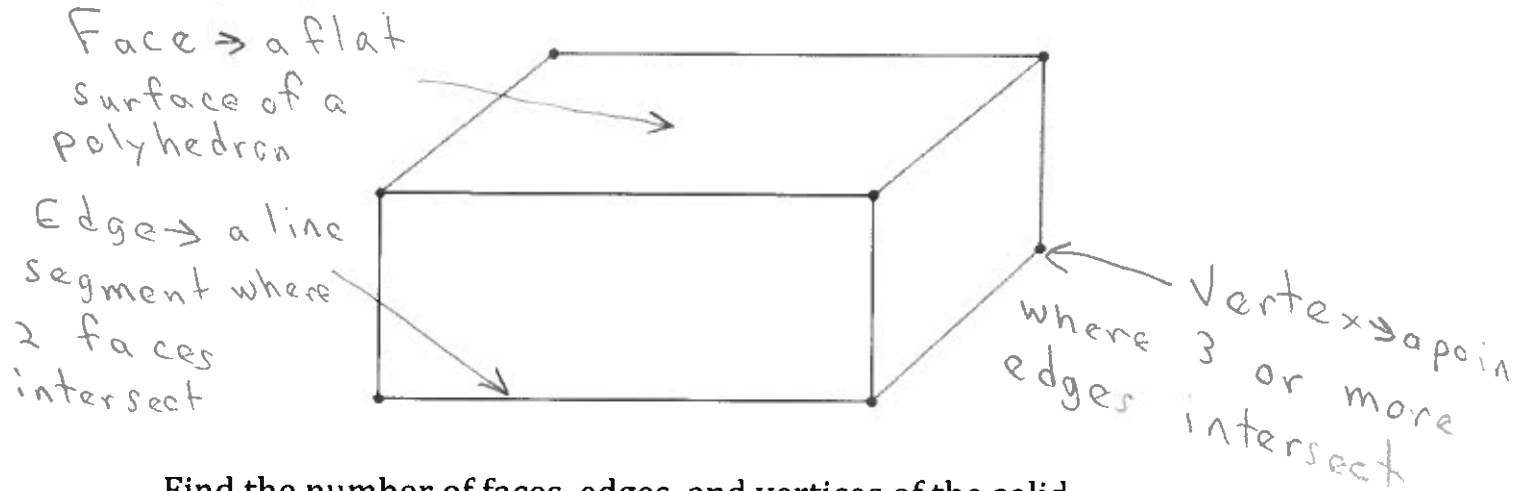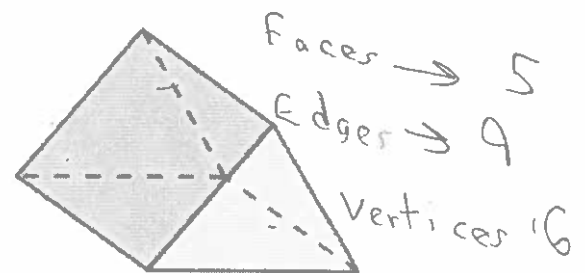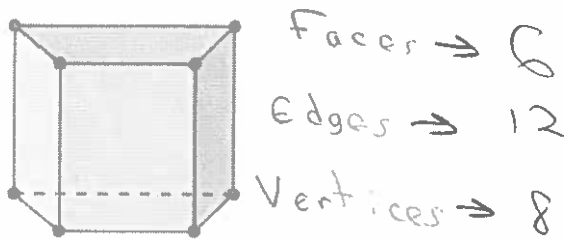# Three-Dimensional Figures
8.1

Essential Question: what is a face, edge, and vertex
of a solid?

A _Solid_ is a three-dimensional figure that encloses a space.
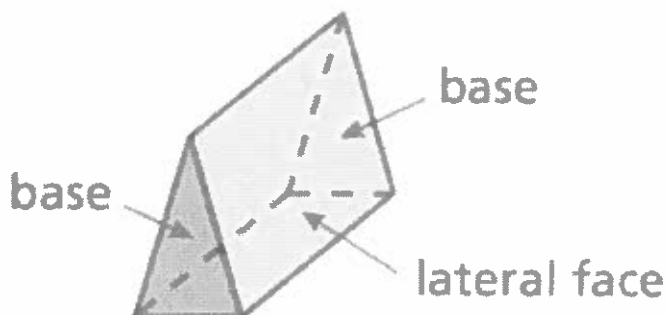
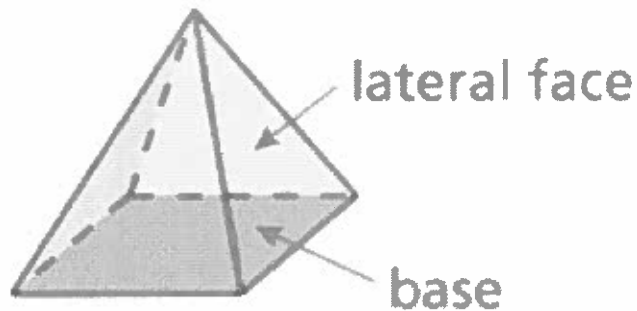A _polyhedron_ is a solid whose faces are all polygons.

Face → a flat
surface of a
polyhedron

Edge → a line
segment where
2 faces
intersect

Vertex → a point
where 3 or more
edges intersect

Find the number of faces, edges, and vertices of the solid.

Faces → 6
Edges → 12
Vertices → 8

Faces → 5
Edges → 9
Vertices 6

A _prism_ is a polyhedron that has two parallel
identical bases. The lateral faces are parallelograms.

base

base

lateral face

A _Pyramid_ is a polyhedron that has one base. The lateral faces are triangles.

lateral face
base

The _shape_ of the _base_ tells the name of the prism or pyramid.

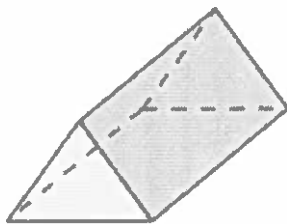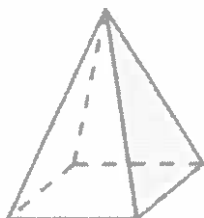Draw the front, side, and top views of the solid.

Front   Side   Top

Front   Side   Top

Front   Side   Top