# Chapter 11: Surface Area \& Volume 

SECTION 1: SOLID GEOMETRY

## Solid Geometry

Three-dimensional figures, or solids, can be made up of flat or curved surfaces.

Each flat surface is called a face.
An edge is the segment that is the intersection of two faces.

A vertex is the point that is the intersection of three or more faces.


## I Can

- Classify three dimensional figures according to their properties
- Use nets and cross sections to analyze 3D figures

3D Figures


## Prisms

A cube is a prism with six square faces. Other prisms and pyramids are named for the shape of their bases.


Triangular prism
 pyramid


Rectangular pyramid


Pentagonal prism



## Classifying 3D Figures

Classify the figure. Name the vertices, edges, and bases.


## Nets

## Describe the three-dimensional figure that can

 be made from the given net.

## Cross Sections

A cross section is the intersection of a threedimensional figure and a plane.

## Describe the cross section.



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