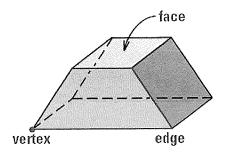
SOLIDS INTRO

A **polyhedron** is a solid that is bounded by polygons, called **faces**, that enclose a single region of space. An **edge** of a polyhedron is a line segment formed by the intersection of two faces. A **vertex** of a polyhedron is a point where three or more edges meet. The plural of polyhedron is *polyhedra*, or polyhedrons.

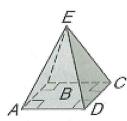


CONCEPT TYPES SUMMARY	OF SOLIDS				
Of the five solids below, the prism and pyramid are polyhedra. The cone, cylinder, and sphere are not polyhedra.					
Prism	Pyramid	Cone			
Cylinde	r Sphere				

Name	Triangular Prism	Rectangular Prism	Pentagonal Prism	Square Pyramid
Model				
Shape of Base(s)	triangle	rectangle	pentagon	square

Identify the solid, then name the base(s), name the number of faces and the number of edges.

ā.

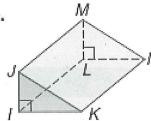


Solid: Pyramid

Nome of Bases Rectangle # of faces: 5 (4 4's + 10)

of edges: 8

b.

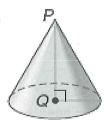


Solid: Prism

Name of Bases: Triangle (right) # of faces: 5 (2 4 + 3 12)

of edges: 9

C.



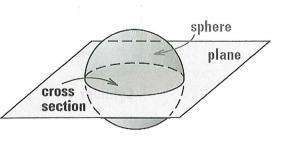
sono Cone

-Name of Bases: Circle

-# of faces: 2 (1 on 1 come)

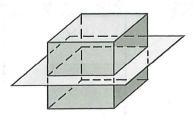
of edges: 2

Imagine a plane slicing through a solid. The intersection of the plane and the solid is called a cross section. For instance, the diagram shows that the intersection of a plane and a sphere is a circle.

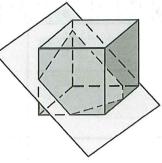


Describe the shape formed by the intersection of the plane and the cube.

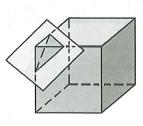
a.



b.



C.



Rectangle



Triangle