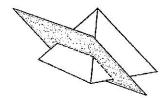


as polyhedra? What features make them polyhedra?

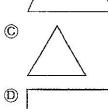
A square pyramid is cut along the shaded plane shown below.

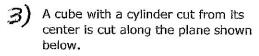


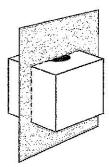
Which of the following is the cross-section of this solid?



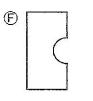


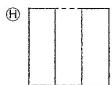


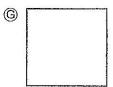


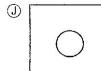


Which of the following is the cross-section of this solid?

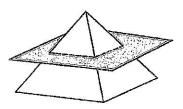




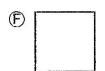


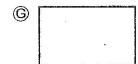


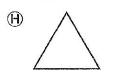
A square pyramid is cut along the shaded plane shown below.

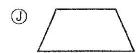


Which of the following is the cross-section of this solid?

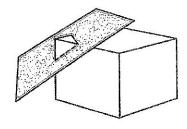






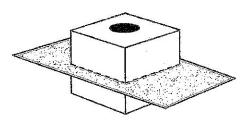


A rectangular prism is cut along the shaded plane shown below.

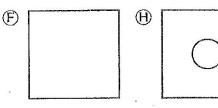


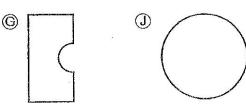
Draw a sketch of the cross-section:

A cube with a cylinder cut from its center is cut along the plane shown below.

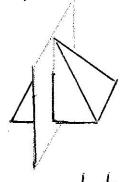


Which of the following is the cross-section of this solid?





7) A pyramid is cut along the shaded plane as shown.

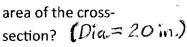


Draw a sketch of the cross-section:

Challenge Problems

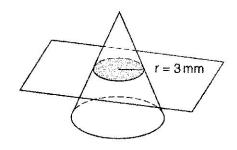
PLANAR CROSS-SECTIONS

1) A planar crosssection of a right circular cylinder is shown. What is the area of the cross-



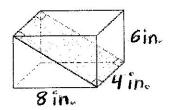


2)



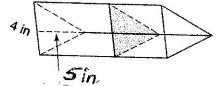
Find the area of the figure formed by the intersection of a plane and a cone if the plane is parallel to the base of the cone.

3)



In the above figure, the shaded region is a planar cross-section of the rectangular solid. What is the area of the crosssection?

4)



A plane intersects a triangular prism parallel to the base. The prism has a base of 4 inches and a height of 5 inches. What is the area of the figure formed by the intersection??

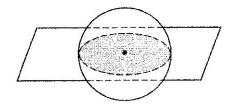
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Challenge Problems

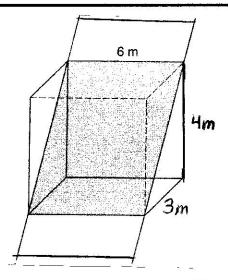
PLANAR CROSS-SECTIONS



5) A planar cross-section through the center of a sphere is shown. The radius of the sphere is 20 cm. What is the area of the cross-section?



6) Find the area, in square inches, of the plane figure formed by the cross-section of the rectangular prism shown here.



7) In this figure, the shaded areas show the intersection of two planar cross-sections that divide the large rectangular solid into four identical rectangular prisms. What is the surface are of one of those prisms?

