



1. How is the formula for the volume of a pyramid different from the formula for the volume of a prism.

2. Triangular pyramid and a triangular prism have the same base and height. The volume of the prism is how many times the volume of the pyramid?

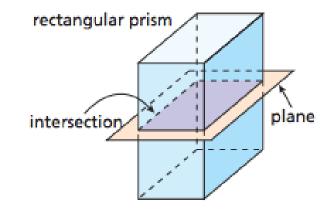
3. Describe a real-life situation that involves finding the volume of a pyramid.



Consider a plane (flat surface) "slicing through" a solid.

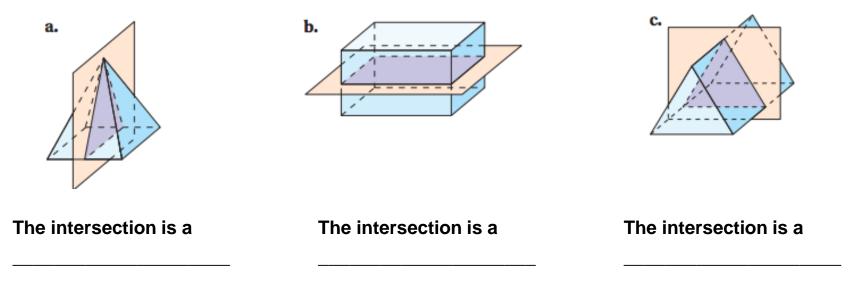
The intersection of the plane and the solid is a twodimensional shape called a \_\_\_\_\_.

The diagram shows that the intersection of the plane and the rectangular prism is a \_\_\_\_\_.

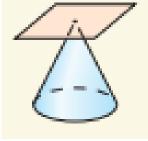


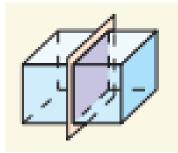
## **Describing the Intersection of a Plane and a Solid**

Describe the intersection of the plane and the solid.









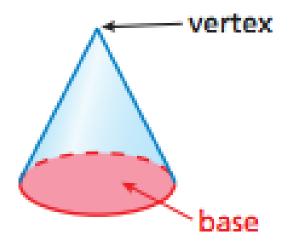
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Now consider the intersection of a plane and a solid having a curved surface, such as a cylinder or cone.



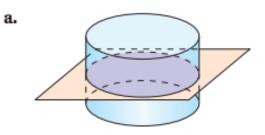
As shown, a cone is a solid that has one \_\_\_\_\_ base and

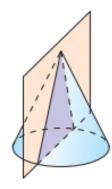
one \_\_\_\_\_.

## **Describing the Intersection of a Plane and a Solid**

b.

Describe the intersection of the plane and the solid.





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