

**Crazy with Cross-Sections**

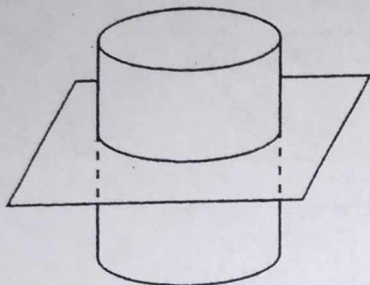
<b>Solid</b>	<b>Possible cross-sections</b>	<b>Sketch or describe the "slice" that would make each possible...</b>
a. Cylinder		
b. Cone		
c. Sphere		

**Name 3 plane figures that cannot be formed from cross-sections of the above solids and explain they cannot be formed.**

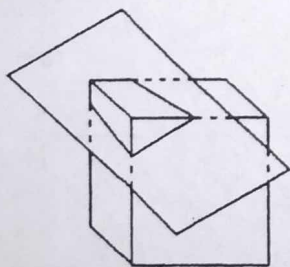
# Lesson Practice



1. The cylinder below is cut by the plane shown. What is the shape of the cross-section formed?



- A circle  
B rectangle  
C trapezoid  
D triangle
2. The cube below is cut by the plane shown. What is the shape of the cross-section formed?



- A circle  
B rectangle  
C square  
D triangle

3. Suppose a cone is cut by a plane. Which cross-section is NOT possible?

- A circle  
B ellipse  
C square  
D triangle

4. The cross-section of a three-dimensional figure is shaped like a circle. The three-dimensional figure could NOT be a \_\_\_\_\_.

- A cone  
B cylinder  
C pyramid  
D sphere

5. A cylinder is cut by a plane to form a cross section shaped like an ellipse. How could the plane that formed the cross-section have cut the cylinder?

- A parallel to a base of the cylinder  
B perpendicular to a base of the cylinder  
C slightly tilted away from a base of the cylinder  
D none of the above