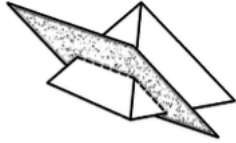


**11-1 Cross-Sections Practice**

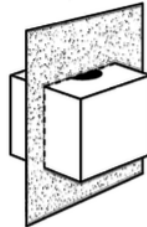
1. A square pyramid is cut along the shaded plane shown below.



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

- (A)
- (B)
- (C)
- (D)

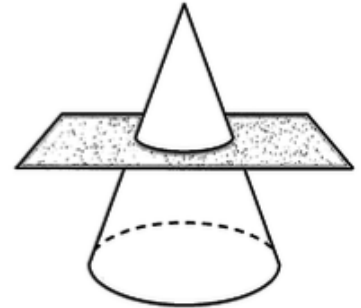
2. A cube with a cylinder cut from its center is cut along the plane shown below.



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

- (F)
- (G)
- (H)
- (J)

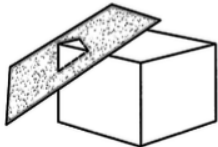
3. A cross-section is cut from the circular cone below.



What is the shape of the cross-section?

- (A) Square
- (B) Semicircle
- (C) Triangle
- (D) Circle

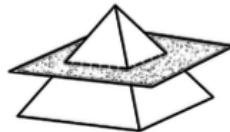
4. A rectangular prism is cut along the shaded plane shown below.



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

- (F)
- (G)
- (H)
- (J)

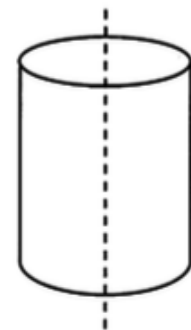
5. A square pyramid is cut along the shaded plane shown below.



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

- (F)
- (G)
- (H)
- (J)

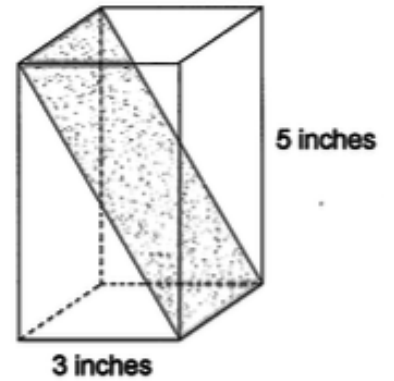
6. A cross-section is cut from the cylinder below.



What is the shape of the cross-section?

- (A) Rectangle
- (B) Circle
- (C) Semicircle
- (D) Oval

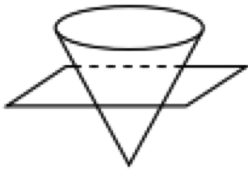
7. Mr. Barth has a piece of foam in the shape of a rectangular prism as shown below. The base is square with sides 3 inches long, and the piece is 5 inches tall. He cut the foam along the diagonal plane as shown by the shaded area.



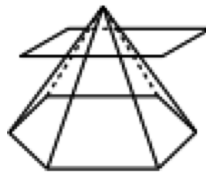
Find the area of the diagonal cross section.

**Describe the following cross sections.**

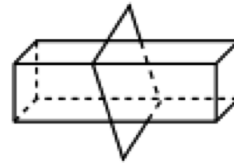
8.



9.



10.

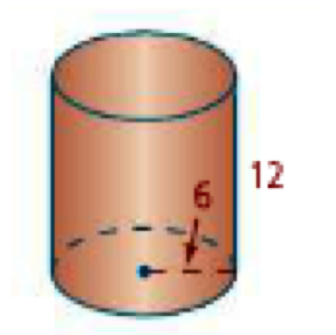


11. What is the cross section formed by a plane that intersects the front, right, top, and bottom faces of a cube?

12. Given the cylinder at the right, use the dimensions to find the area of the following.

a) A horizontal cross section.

b) A vertical cross section through the center.



13. Given the cone at the right, use the dimensions to find the area of the vertical cross section through the vertex.

