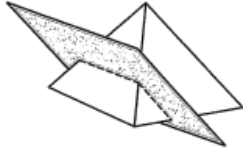


Homework 6.7: Cross Sections

Math 3

Name: _____

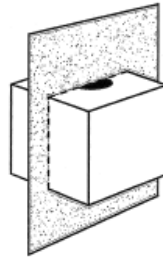
- 1 A square pyramid is cut along the shaded plane shown below.



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

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

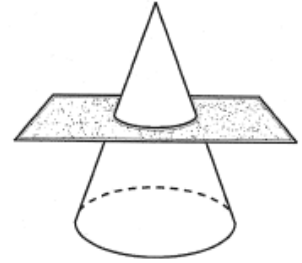
- 2 A cube with a cylinder cut from its center is cut along the plane shown below.



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

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

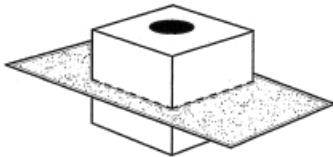
- 3 A cross-section is cut from the circular cone below.



What is the shape of the cross-section?

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

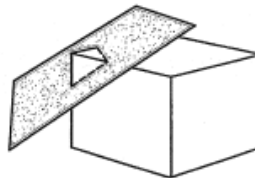
- 4 A cube with a cylinder cut from its center is cut along the plane shown below.



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

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

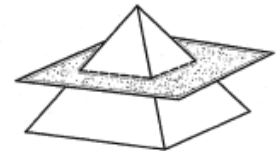
- 6 A rectangular prism is cut along the shaded plane shown below.



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

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

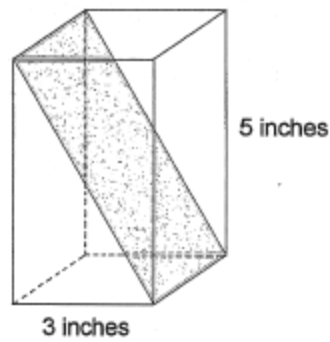
- 14 A square pyramid is cut along the shaded plane shown below.



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

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

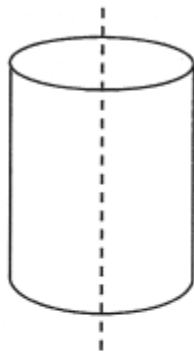
- 9 Andrew had a piece of foam in the shape of a rectangular prism as shown below. The base is a square with sides 3 inches long, and the piece is 5 inches tall. He cut the foam along the diagonal plane shown by the shaded area.



Which of the following is closest to the area of the shaded diagonal plane?

- (A) 19.3 square inches
- (B) 12 square inches
- (C) 15.8 square inches
- (D) 17.5 square inches

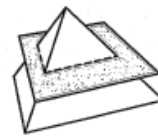
- 11 A cross-section is cut from the cylinder below.



What is the shape of the cross-section?

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

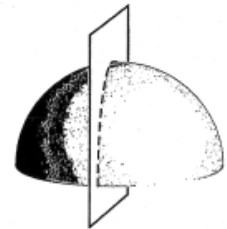
- 17 A triangular pyramid is cut along the shaded plane shown below.



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

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

- 18 A hemisphere is cut along the plane shown below.



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

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