

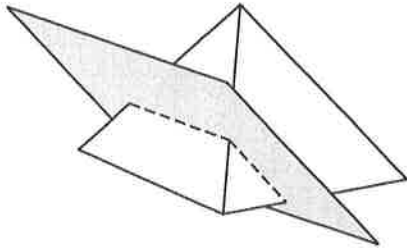
# A#16-2: Nets and Cross Sections

Name \_\_\_\_\_

Date \_\_\_\_\_

Class/Grade \_\_\_\_\_

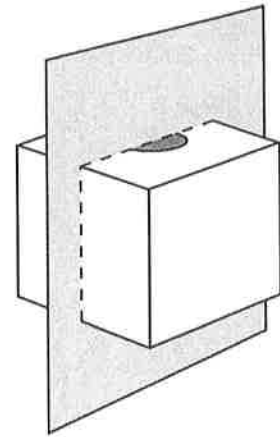
- 1 A square pyramid is cut along the shaded plane shown below.



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.

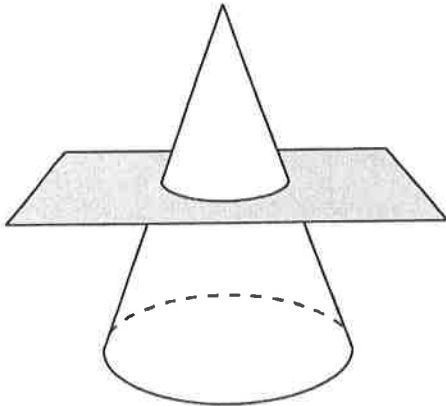


Which of the following is the cross-section of this solid?

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

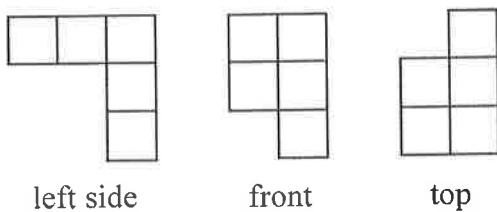
## A#16-2: Nets and Cross Sections

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



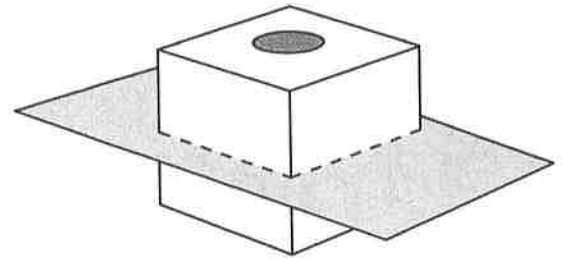
What is the shape of the cross-section?

- (A) Square
  - (B) Semicircle
  - (C) Triangle
  - (D) Circle
- 4 What is the least number of cubes needed to form a three-dimensional figure with the given left side, front, and top views?

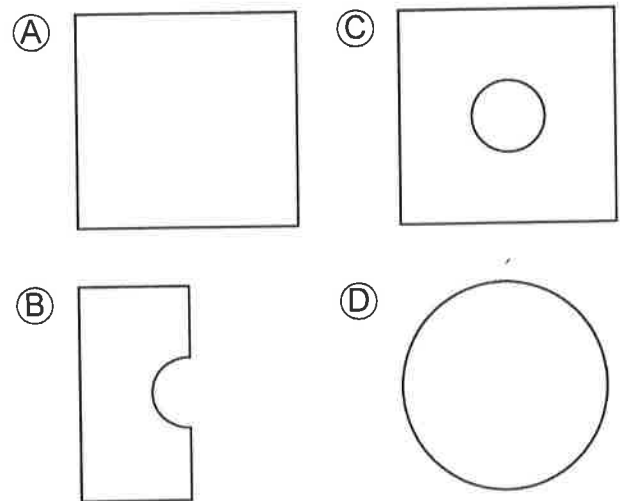


- (A) 9 cubes
- (B) 11 cubes
- (C) 5 cubes
- (D) 8 cubes

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

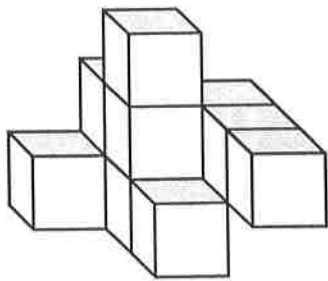


Which of the following is the cross-section of this solid?



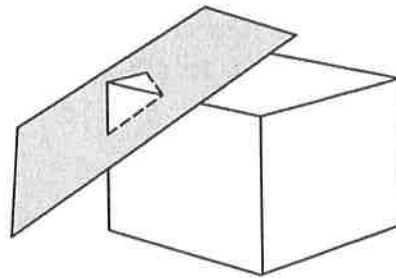
## A#16-2: Nets and Cross Sections

- 6 Which drawing represents the top view of this solid?



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

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

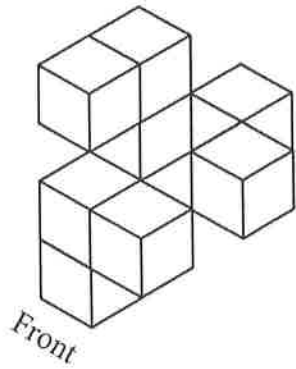


Which of the following is the cross-section of this solid?

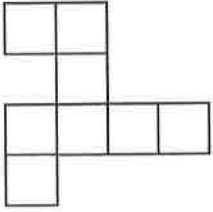
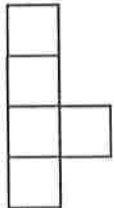
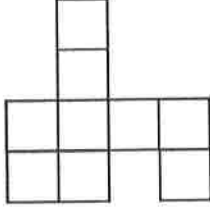
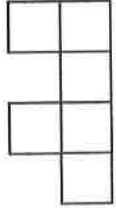
- (A) (B) (C) (D)

## A#16-2: Nets and Cross Sections

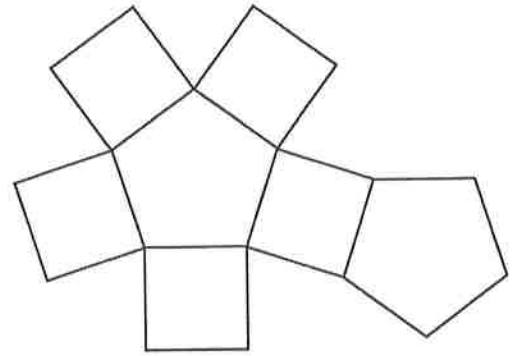
- 8 The three-dimensional figure shown is composed of 10 identical cubes.



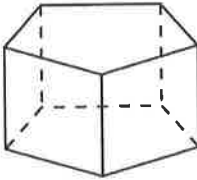
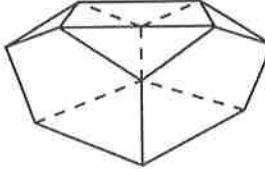
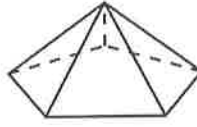
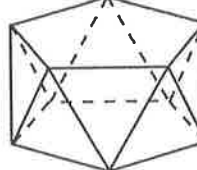
Which of the following could not represent a top, front, or side view of the figure?

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

- 9 The net of a specific polyhedron is shown below.

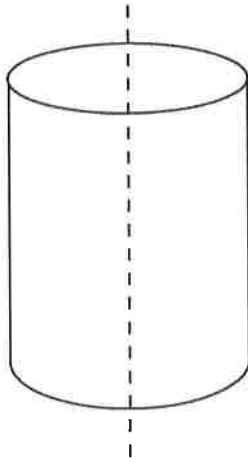


Which polyhedron is represented by this net?

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

## A#16-2: Nets and Cross Sections

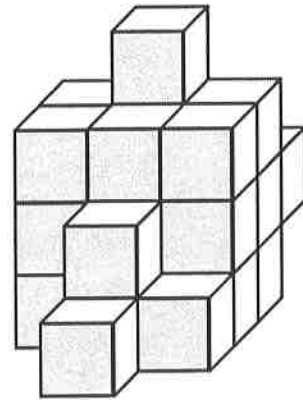
- 10 A cross-section is cut from the cylinder below.

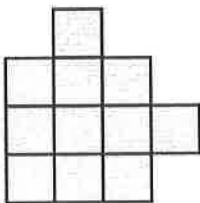


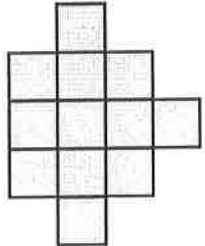


What is the shape of the cross-section?

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

- 11 Which drawing represents the front view of this solid?



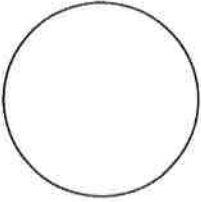
- (A) 
- (B) 
- (C) 
- (D) 

## A#16-2: Nets and Cross Sections

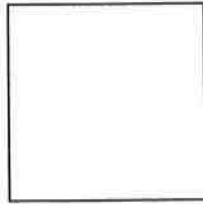
- 12 Which of the following is a cross-section of a sphere?



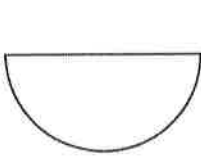
(A)



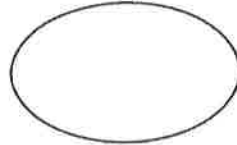
(C)



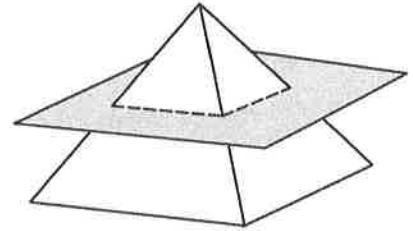
(B)



(D)

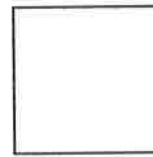


- 13 A square pyramid is cut along the shaded plane shown below.



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

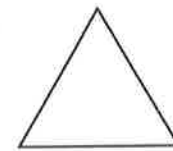
(A)



(B)



(C)

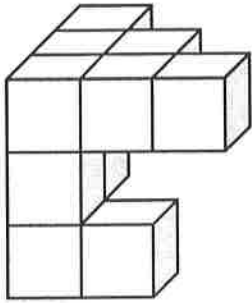


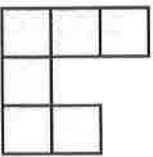
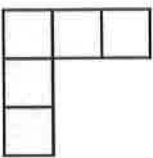
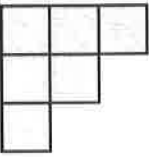
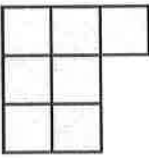
(D)



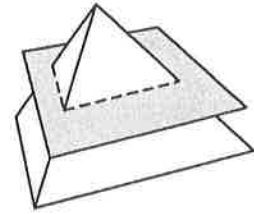
## A#16-2: Nets and Cross Sections

- 14 Which drawing represents the side view of this solid?

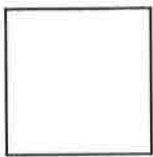
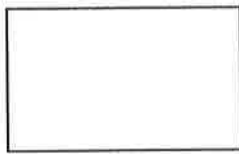
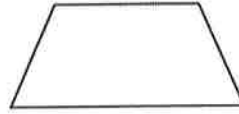
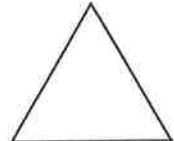


- (A) 
- (B) 
- (C) 
- (D) 

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

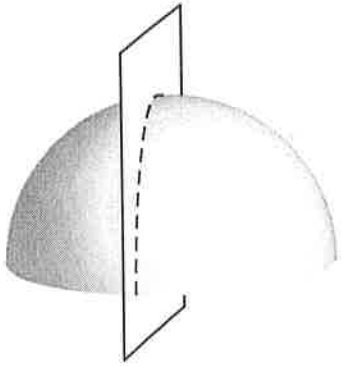


Which of the following is the cross-section of this solid?

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

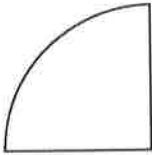
## A#16-2: Nets and Cross Sections

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

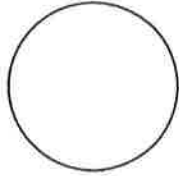


Which of the following is the cross-section of this solid?

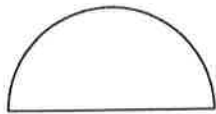
(A)



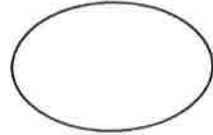
(C)



(B)



(D)

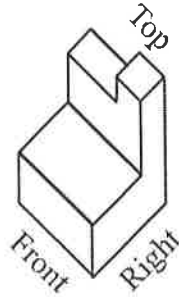




## A#16-2: Nets and Cross Sections

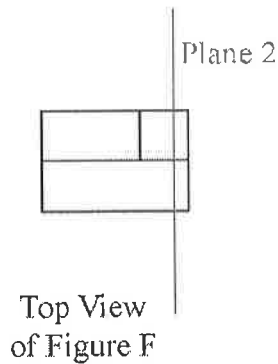
- 17 The following diagram is an isometric drawing of a three-dimensional figure, Figure F.

Figure F

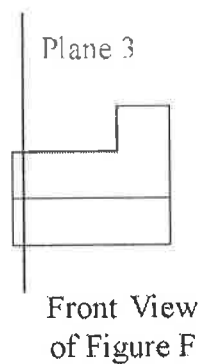


Each illustration below models a top view, front view, or right view of the intersection of Figure F and a plane. Which of them is modeling an intersection that is not L-shaped?

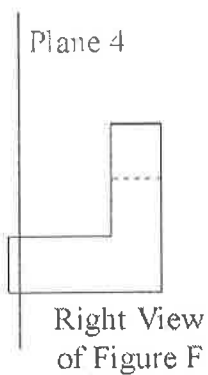
(A)



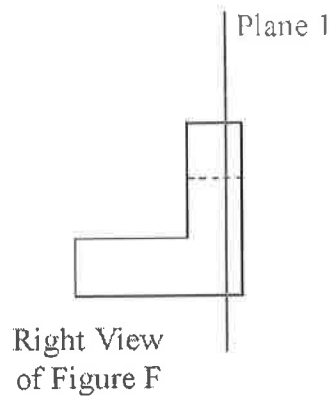
(C)



(B)

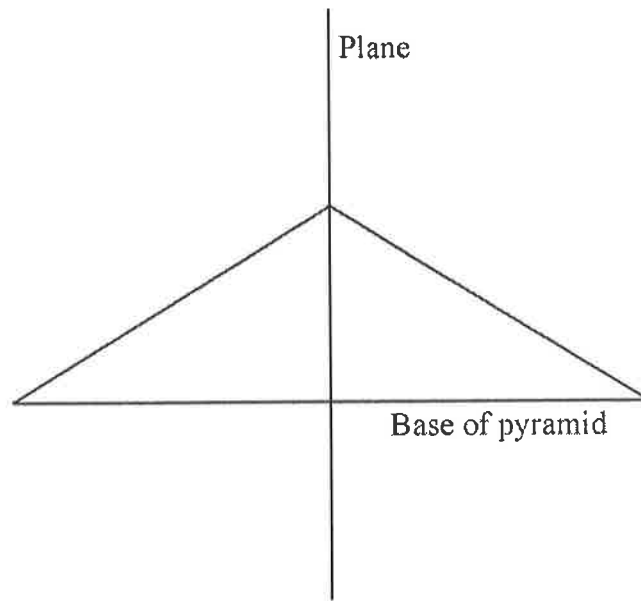


(D)



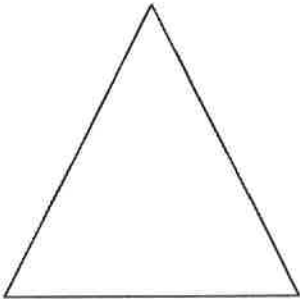
## A#16-2: Nets and Cross Sections

18 A side view of the intersection of a plane and a square pyramid is modeled below.

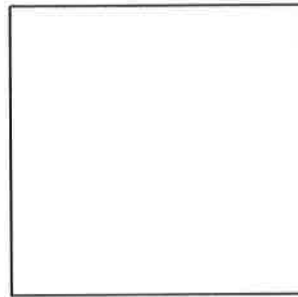


Which of the following best represents the shape formed by the intersection?

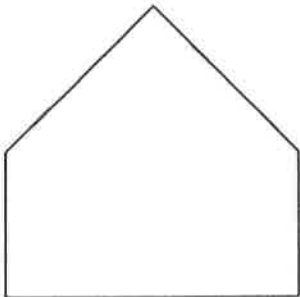
(A)



(C)



(B)

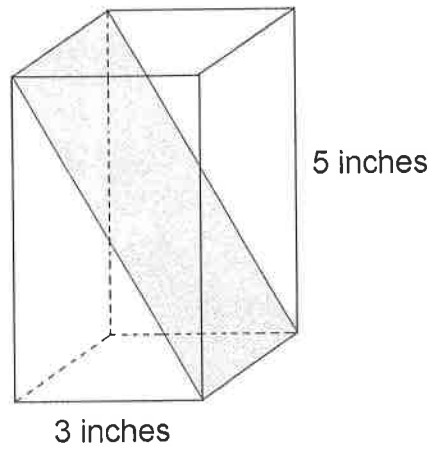


(D)



## A#16-2: Nets and Cross Sections

- 19 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.

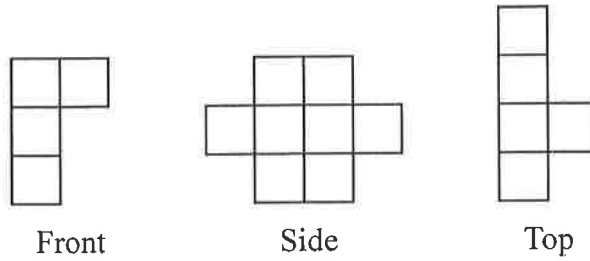


Which of the following is closest to the area of the shaded diagonal plane?

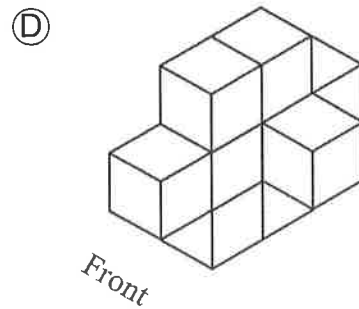
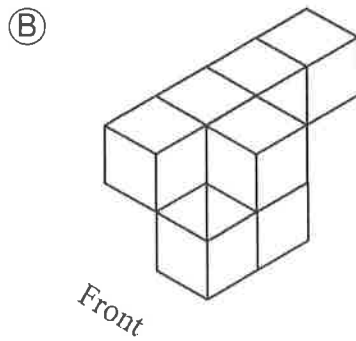
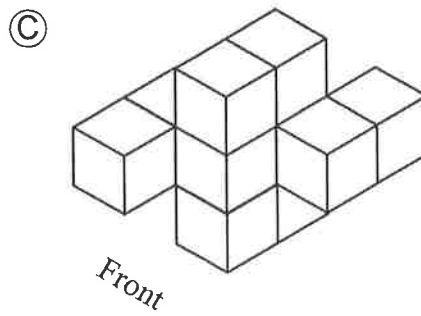
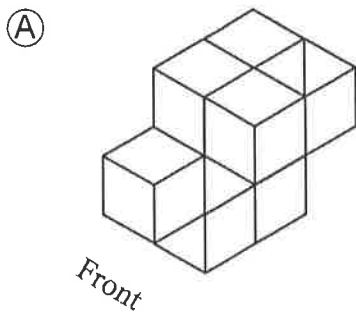
- (A) 19.3 square inches
- (B) 12 square inches
- (C) 15.8 square inches
- (D) 17.5 square inches

## A#16-2: Nets and Cross Sections

- 20 The front, side, and top views of a three-dimensional figure composed of 9 identical cubes are shown below.

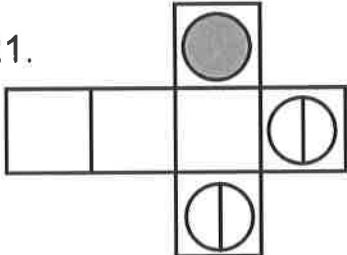


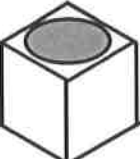
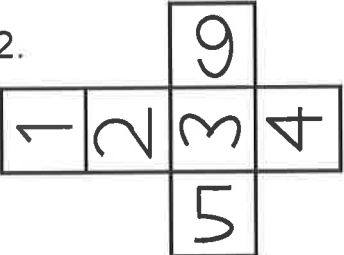





Which of the following could be the represented figure?



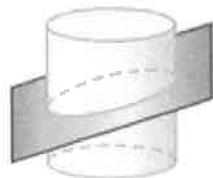
# A#16-2: Nets and Cross Sections

Match the net with the correct three-dimensional figure.

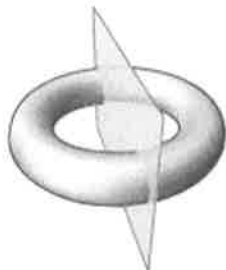
<p>21.</p> 	<p>A.</p> 	<p>B.</p> 	<p>C.</p> 
<p>22.</p> 	<p>A.</p> 	<p>B.</p> 	<p>C.</p> 

Draw the cross section for each

23.



24.



25.



26.

