

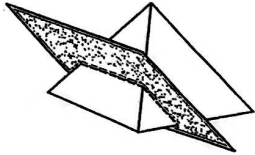
Cross Section Worksheet Form A

Name Mr. Morton

Date \_\_\_\_\_

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

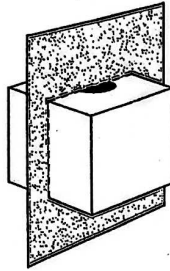
- 1 A square pyramid is cut along the shaded plane shown below.



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

- A square
- B A trapezoid
- C A triangle
- D A rectangle

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

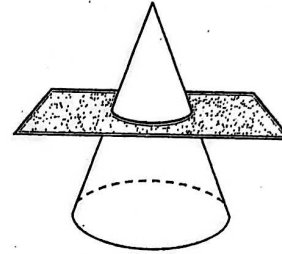


Which of the following is the cross-section of this solid?

- A A rectangle with a semi-circle cut out of the right side
- B A rectangle with a semi-circle cut out of the left side
- C A rectangle with a vertical line through the center
- D A rectangle with a circle in the center

Cross Section Worksheet Form A

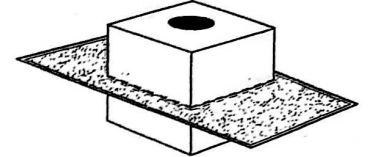
- 3 A cross-section is cut from the circular cone below.



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.

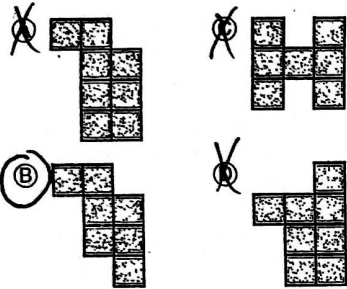
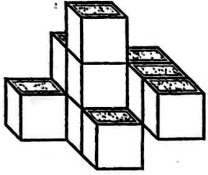


Which of the following is the cross-section of this solid?

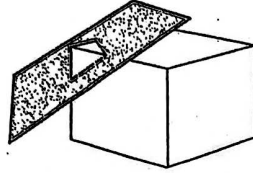
- A A square
- B A square with a circle in the center
- C A rectangle with a semi-circle cut out of the right side
- D A circle

Cross Section Worksheet Form A

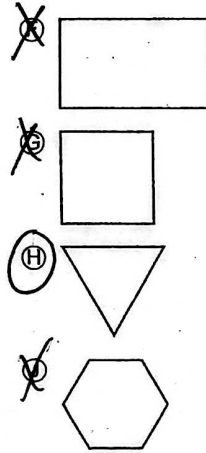
- 5 Which drawing represents the top view of this solid?



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

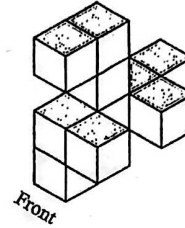


Which of the following is the cross-section of this solid?

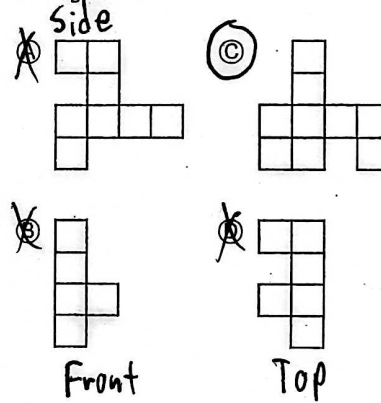


Cross Section Worksheet Form A

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

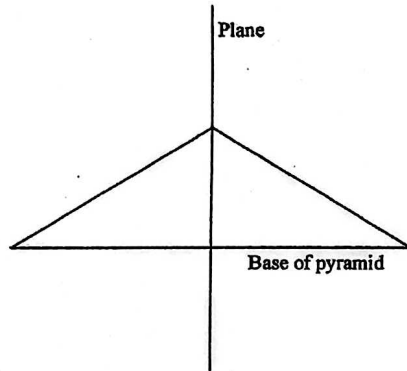


Which of the following could not represent a top, front, or side view of the figure?



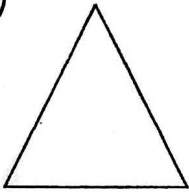
Cross Section Worksheet Form A

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

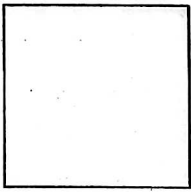


Which of the following best represents the shape formed by the intersection?

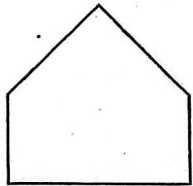
(F)



(G)



(H)

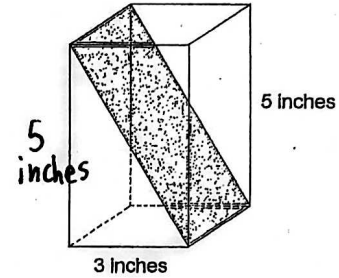


(J)



Cross Section Worksheet Form A

- 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

$$3^2 + 5^2 = x^2$$

$$34 = x^2$$

$$x = \sqrt{34}$$

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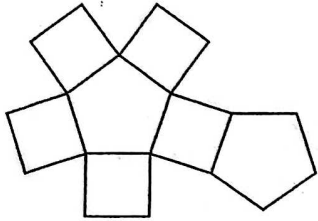

$$A = L \times W$$

$$A = 3\sqrt{34}$$

$$A = 17.49286 \text{ in}^2$$

Cross Section Worksheet Form A

10 The net of a specific polyhedron is shown below.

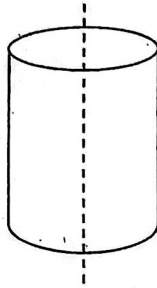


Which polyhedron is represented by this net?

- (F)
- 
- 
- 

Cross Section Worksheet Form A

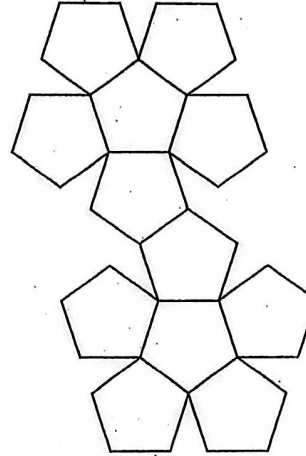
11 A cross-section is cut from the cylinder below.



What is the shape of the cross-section?

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

12 Below is the net of a regular dodecahedron.



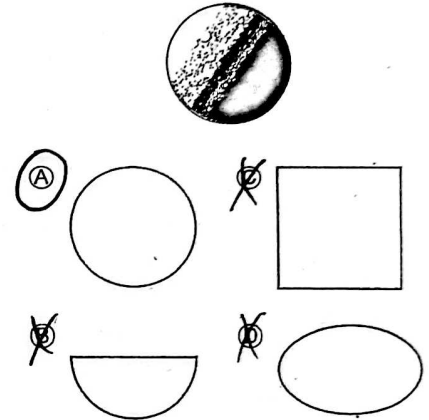
How many edges does a regular dodecahedron have?

- (A) 60
- (B) 24
- (C) 50
- (D) 30

$$F - E + V = 2$$

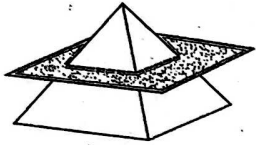
$$12 - 30 + 20 = 2$$

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



**Cross Section Worksheet Form A**

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

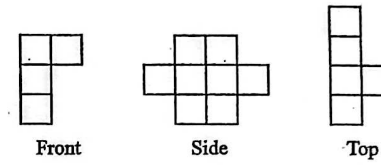


Which of the following is the cross-section of this solid?

- (F)
- (G)
- (H)
- (I)

**Cross Section Worksheet Form A**

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

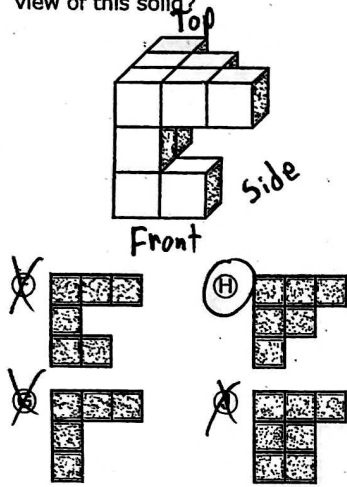


Which of the following could be the represented figure?

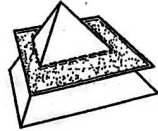
- (A)
- (B)
- (C)
- (D)

Cross Section Worksheet Form A

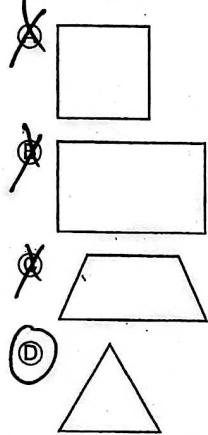
- 16 Which drawing represents the side view of this solid?



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

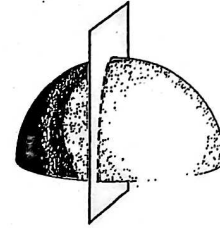


Which of the following is the cross-section of this solid?



Cross Section Worksheet Form A

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



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

