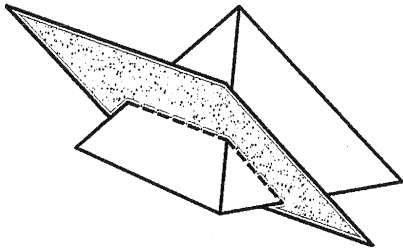# Cross Section Worksheet Form A

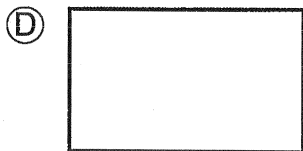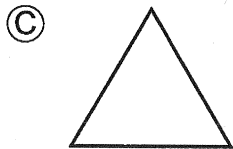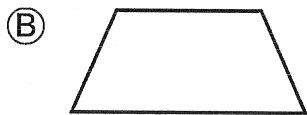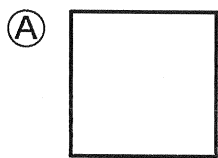**Name** _____ **Date** _____

Class/Grade _____

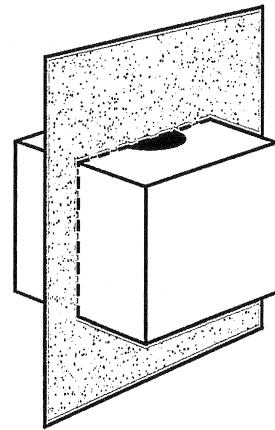**1** A square pyramid is cut along the shaded plane shown below.

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

Ⓐ

Ⓑ

Ⓒ

Ⓓ

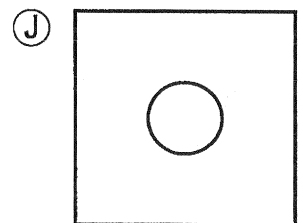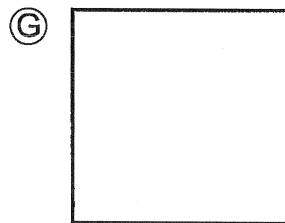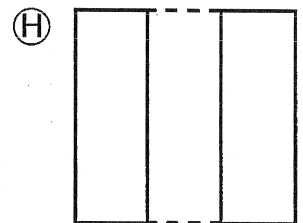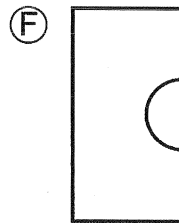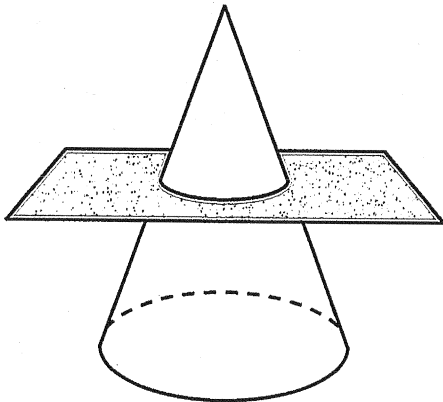**2** A cube with a cylinder cut from its center is cut along the plane shown below.

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

Ⓕ

Ⓗ

Ⓖ

Ⓙ

GO ON

Cross Section Worksheet Form A

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

What is the shape of the cross-section?

Ⓐ Square

Ⓑ Semicircle

Ⓒ Triangle

Ⓓ 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?
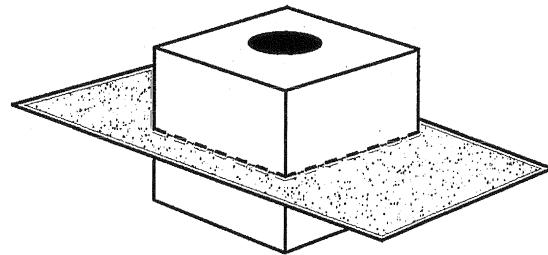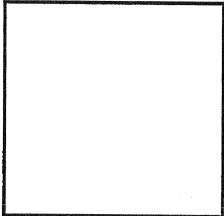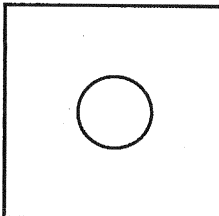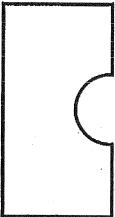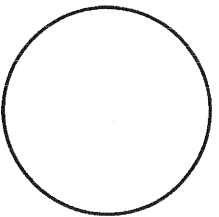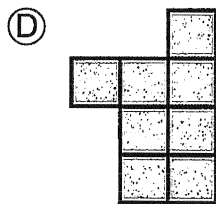
Ⓕ

Ⓗ

Ⓖ

Ⓙ

GO ON

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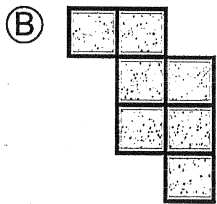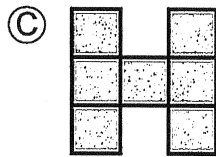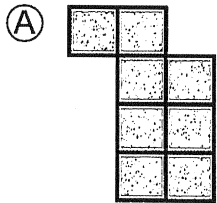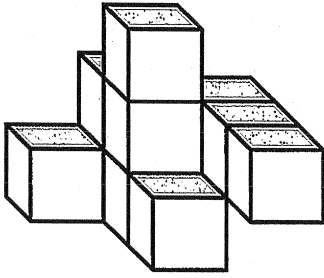
Which of the following is the cross-section of this solid?

Ⓕ

Ⓖ

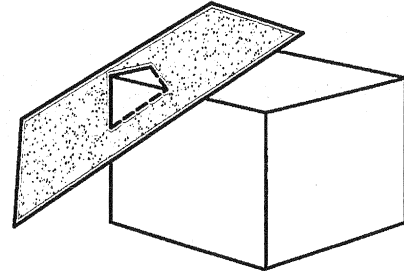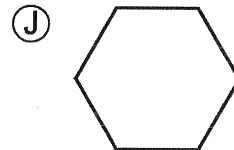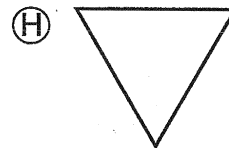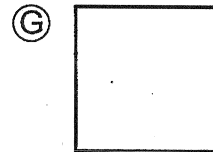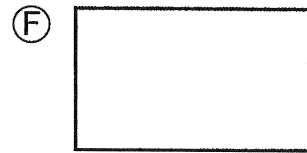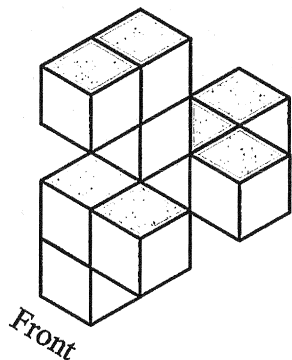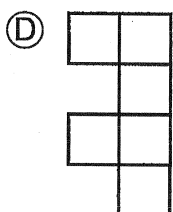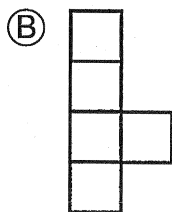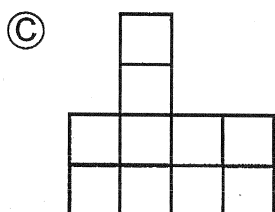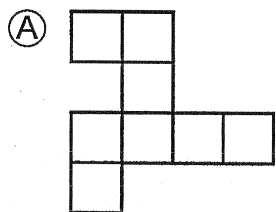Ⓗ

Ⓙ

GO ON

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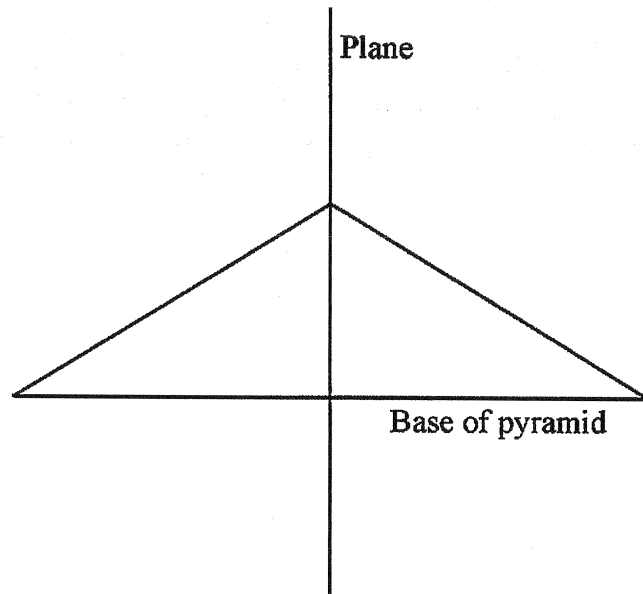

Front

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

Ⓐ

Ⓒ

Ⓑ

Ⓓ
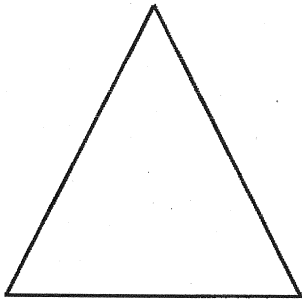
Cross Section Worksheet Form A

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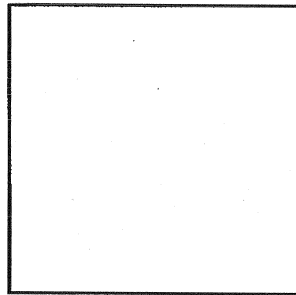
Plane

Base of pyramid

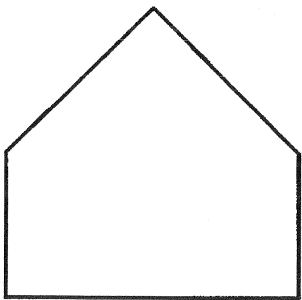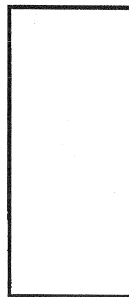Which of the following best represents the shape formed by the intersection?
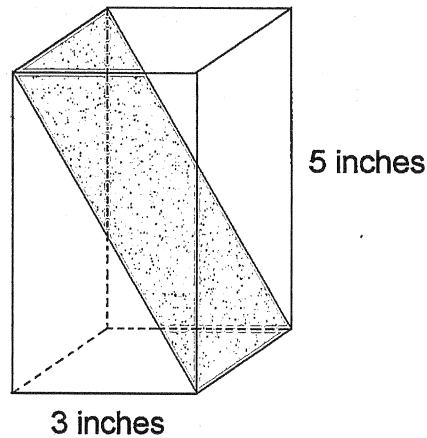
Ⓕ

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GO ON

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.
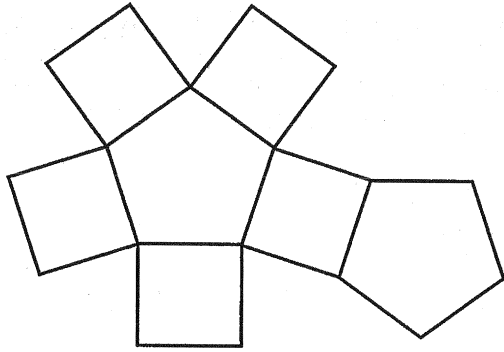

5 inches

3 inches

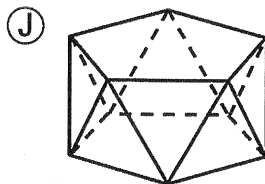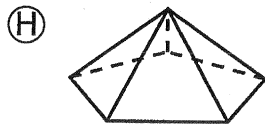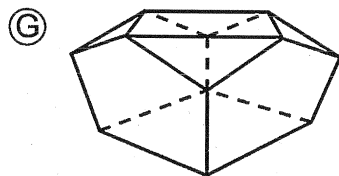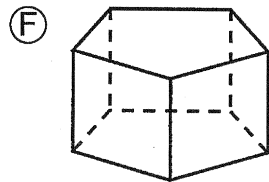Which of the following is closest to the area of the shaded diagonal plane?

Ⓐ 19.3 square inches

Ⓑ 12 square inches

Ⓒ 15.8 square inches

Ⓓ 17.5 square inches
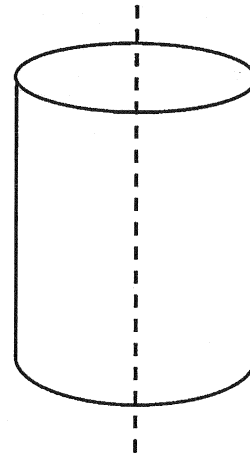
GO ON

Cross Section Worksheet Form A

10 The net of a specific polyhedron is shown below.

Which polyhedron is represented by this net?

Ⓕ

Ⓖ

Ⓗ

Ⓙ

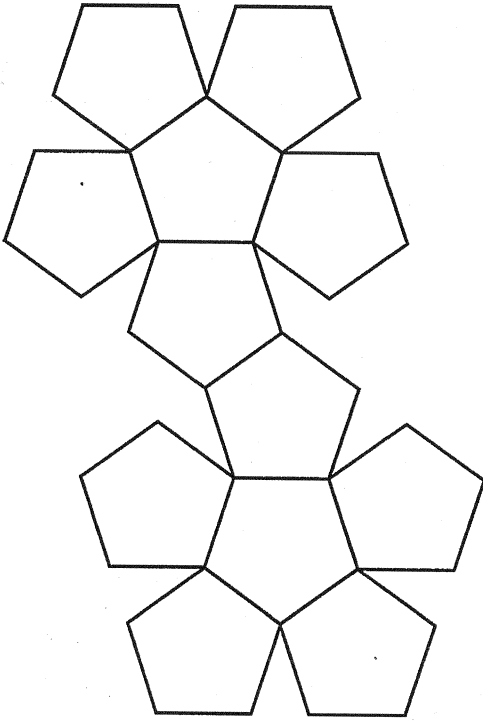**11** A cross-section is cut from the cylinder below.

What is the shape of the cross-section?

Ⓐ Rectangle

Ⓑ Circle

Ⓒ Semicircle
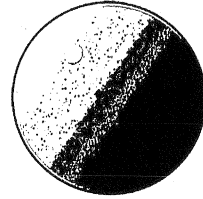
Ⓓ Oval

GO ON

Cross Section Worksheet Form A

12 Below is the net of a regular dodecahedron.

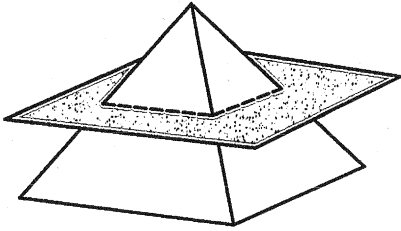How many edges does a regular dodecahedron have?

- Ⓕ 60
- Ⓖ 24
- Ⓗ 50
- Ⓙ 30

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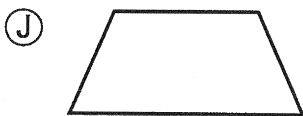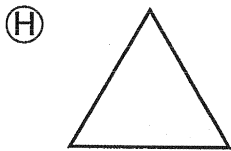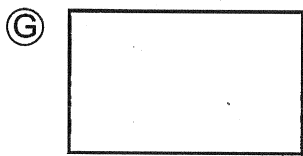
Ⓐ

Ⓑ

Ⓒ
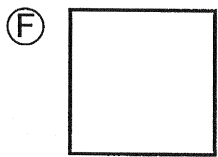
Ⓓ

GO ON

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

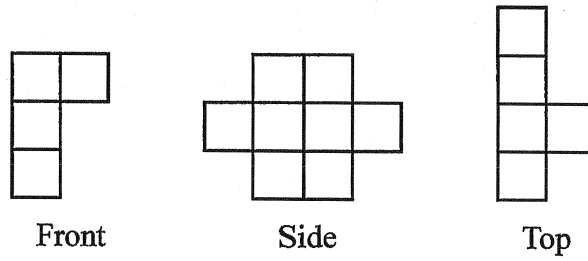

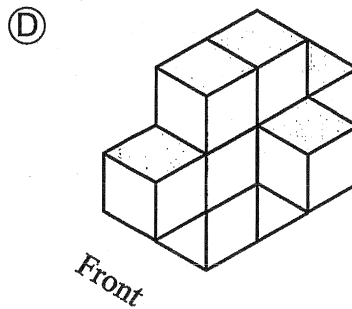Which of the following is the cross-section of this solid?
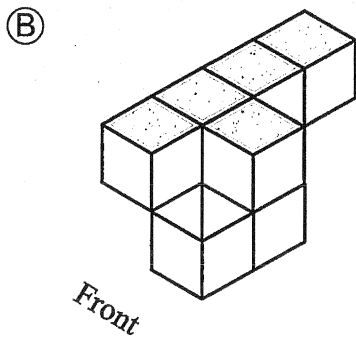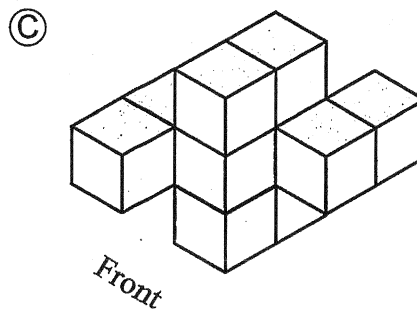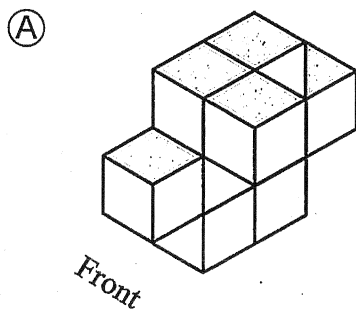
Ⓕ

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Ⓙ

Cross Section Worksheet Form A

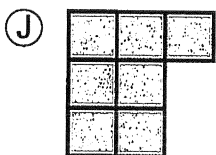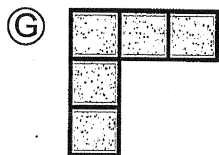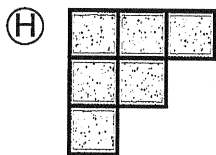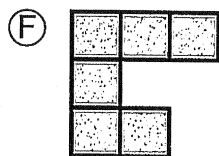**15** The front, side, and top views of a three-dimensional figure composed of 9 identical cubes are shown below.

Front   Side   Top

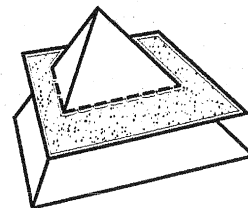Which of the following could be the represented figure?

Ⓐ

Front

Ⓒ

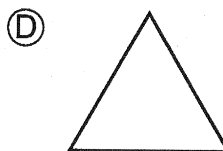Front

Ⓑ

Front
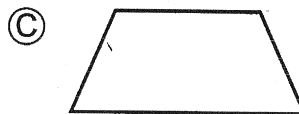
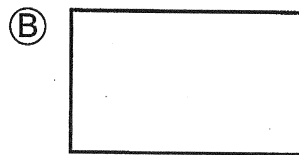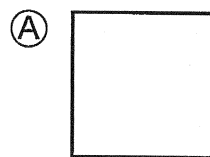Ⓓ

Front

GO ON

Cross Section Worksheet Form A

16 Which drawing represents the side view of this solid?
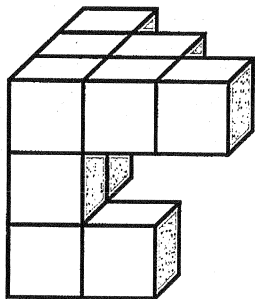
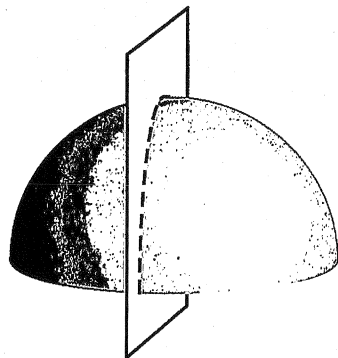**17** A triangular pyramid is cut along the shaded plane shown below.

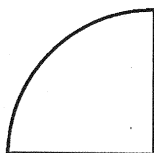Which of the following is the cross-section of this solid?

Ⓐ

Ⓑ

Ⓒ

Ⓓ

GO ON

18 A hemisphere is cut along the plane shown below.
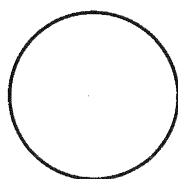
Which of the following is the cross-section of this solid?

Ⓕ

Ⓗ

Ⓖ

Ⓙ

STOP