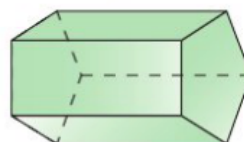
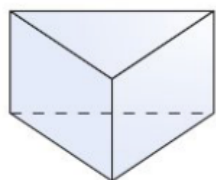


Skills You'll Need

A flat surface of a solid shaped like a polygon is called a ____.

Describe each face and name each prism.



7th Grade Lesson 7-4: Cross Sections

Learning Goal:

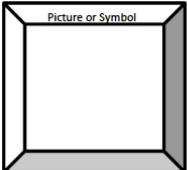
- I can describe cross sections that result from slicing three-dimensional figures.

What I Know:

What I Learned:

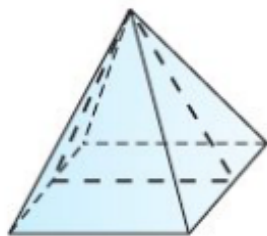
Cross Section



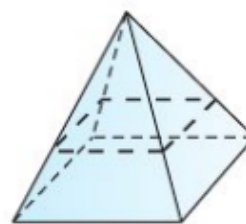
<small>Vocabulary Word</small> cross section	Example 	Definition: the two-dimensional shape you see after slicing through a three-dimensional object
<small>Picture or Symbol</small> 	Non-Example 	Sentence:

Identifying a Cross Section

John made a clay model of a square pyramid. He shows the cross section of the pyramid by slicing the pyramid with a string. What is the shape of each cross section?



This slice makes a triangle.



This slice makes a square.

Quick Check

Jorge and Patti are eating sushi rolls shaped like cylinders. Jorge cut his sushi roll vertically. Patti cut her sushi roll horizontally. What is the shape of each cross section?



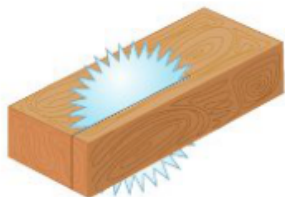
Jorge's cut makes a circle.



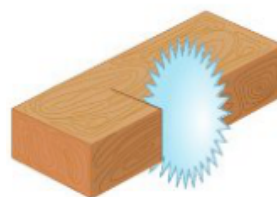
Patti's cut makes a rectangle.

Describing a Cross Section

Ripping means cutting wood in the same direction as the grain of the wood. Crosscutting means cutting wood across the grain of the wood. Describe the cross section formed by the cuts below.



Ripping the rectangular prism makes a cross section that is a rectangle congruent to the side face of the wood block.

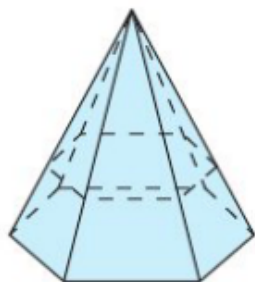


Crosscutting the rectangular prism makes a cross section that is a rectangle congruent to the front face of the wood block.

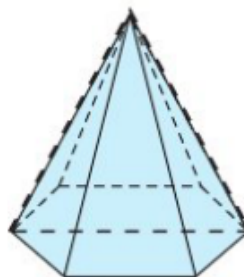


Quick Check

Describe the cross section formed by the slices through the hexagonal pyramid.



The cross section is a hexagon similar to the hexagon that is the base of the pyramid (not the same size).



The cross section is a triangle.

Assignment

7th Grade Lesson 7-4

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