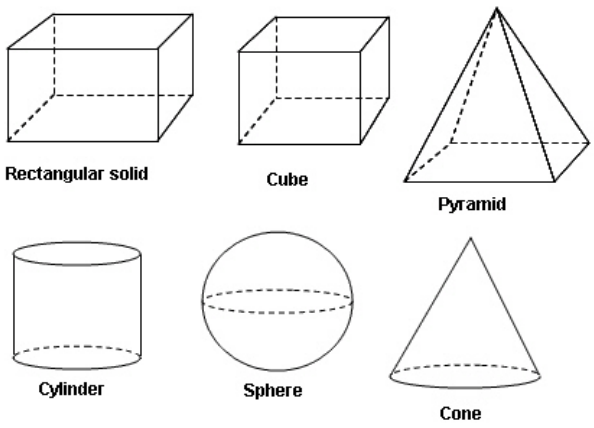
10.2 Cross Sections of 3D Figures

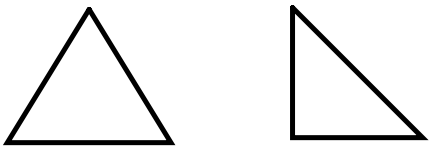
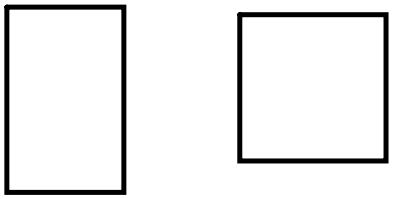
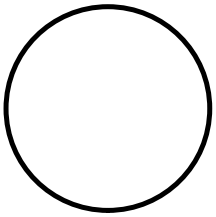
Objective: What happens when you spin or

Meet Your Basic 3D Shapes

An object that has height, width and depth, like any object in the real world.



Rotating 2D Shapes To Create 3D Shapes

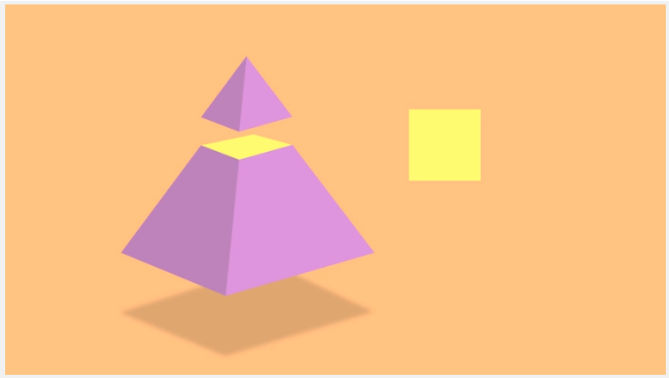
2-Dimensional Shape	3-Dimensional Shape
Triangle 	
Rectangle 	
Circle 	

Cross Sections of 3D Shapes

Cross Sections of 3D Shapes

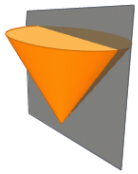
Cross Sections are the two dimensional figure that results from slicing a 3 dimensional figure

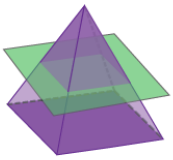
Watch the video link on the website!

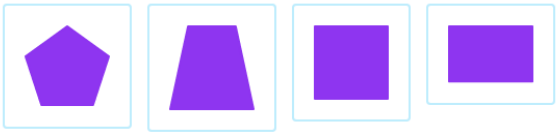


ath Shorts Episode 8 - Slicing Three Dimensional Figures

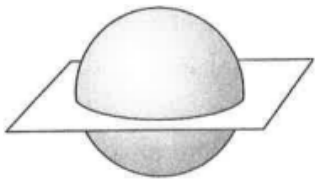
Identify the cross section created of the following three-dimensional shape

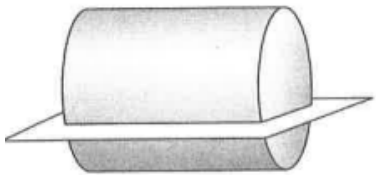




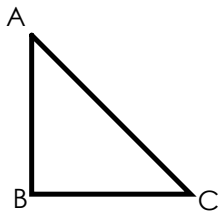


Draw the cross section of the following three-dimensional shapes

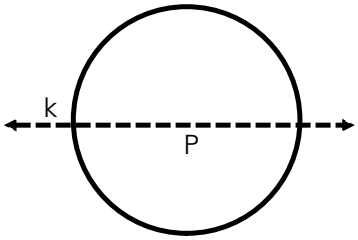




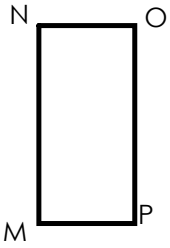
Independent Practice



What three dimensional object is created when triangle ABC is rotated around line BC?

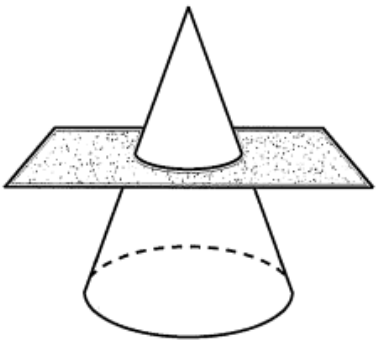


What three dimensional object is created when circle P is rotated around line k?



What three dimensional object is created when rectangle MNOP is rotated around line MN?

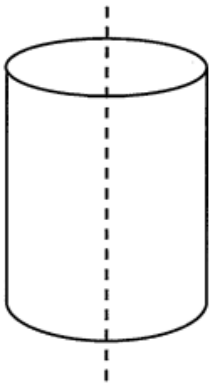
A cross-section is cut from the circular cone below.



What is the shape of the cross-section?

Ⓐ Square
Ⓑ Semicircle
Ⓒ Triangle
Ⓓ Circle

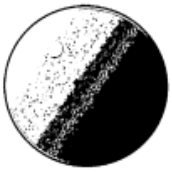
A cross-section is cut from the cylinder below.

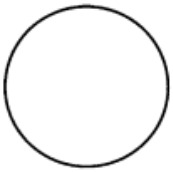


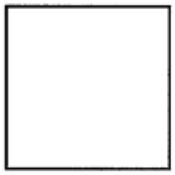
What is the shape of the cross-section?

Ⓐ Rectangle
Ⓑ Circle
Ⓒ Semicircle
Ⓓ Oval

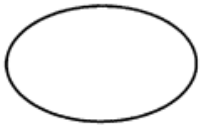
Which of the following is a cross-section of a sphere?



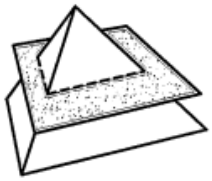
Ⓐ 

Ⓒ 

Ⓑ

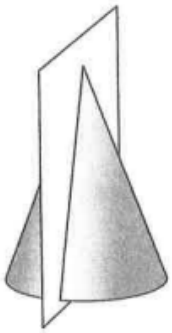
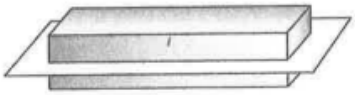
Ⓓ 

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



Draw the cross section of the pyramid

Draw the cross section of the cone below



Draw the cross section of the prism below