

## How are cross-seotions formed?

A cross-section is formed when a 3D shape is sliced. The cross-section is the shape that results from the out. Think about slioing an apple in half and looking at the inside. This white meat of the apple is the oross-section. There are 3 ways to form a oross-section.

## Perpendicular to the Base

When you slice a 3.D shape perpendicular to the base, the 2D shape formed will be the same shape ds the sides.


When you slice a 3.D shape parallel to the base, the 2D shape formed will be the same shape as the base.


## Tilled Away From the Base

When you slice a 3D shape filted away from the base, you may get many different shapes. Pay close aftention to how many edges and how many corners the resulting shape would have.



13. What 2D shape would be formed by slicing a cylinder parallel to the base?

3D Figures and Cross-Sections Student Answer Key

| 1. Hexagonal Prism | 2. Triangular Prism | 3. Pentagon | 4. Rectangle |
| :--- | :--- | :--- | :--- |
| 5. Triangular Prism | 6. Triangle |  | 7. Pentagonal Prism |
| 9. Rectangular Prism | 10. Cylinder | 8. Triangle |  |
| 13. Circle |  | 11. Rectangle |  |

3D Figures and Cross-Sections Student Answer Key


