

### What is a Section View?

 Section View – A secondary drawing showing the interior structure of an object as if it were cut by an imaginary cutting plane.





### Cutting Plane pg. 254

 Cutting Plane – Heavy, dashed line used to show sectional views. Arrows are extended from the endpoints to illustrate the viewing direction.





# Section Lines pg. 255-256

 Sections Lines – Thin lines used when drawing inside features of an object exposed by a cutting plane.



### Full Section pg. 258-259

• Full Section - Making a cut through the ENTIRE object.



# Offset Sections pg. 262

 Offset Section – The cutting plane line is not straight like normal so that all objects can be represented.







# Half Section pg. 259

 Half Section – Shows half of the interior and half of the exterior of the object.





# Revolved Sections pg. 259

 Revolved Sections – Used to show the interior of the object and is drawn directly in inside the object. The section view is rotated for better vision of the interior.

#### **REVOLVED SECTION VIEW**

Steps in construction





# Broken-Out Sections pg. 263

 Broken-Out Section – Just as it sounds the view has a part broken out to see the inside of the part while maintaining a view of the exterior of the part.



# Aligned Sections pg. 260

 Aligned Section – The interior of the object is drawn directly in line with the exterior view of the object.





# Removed Sections pg. 261

 Removed Section – Very similar to the revolved section but the section view is drawn outside of the drawing.





# Conventional Breaks pg. 264-265

 Conventional Break – This is a small interior view to show the inside of a cylindrical or narrow and hollow object.



DMV2Ch03f61

# Test Your Knowledge

- 1-12
- Pg. 266-267