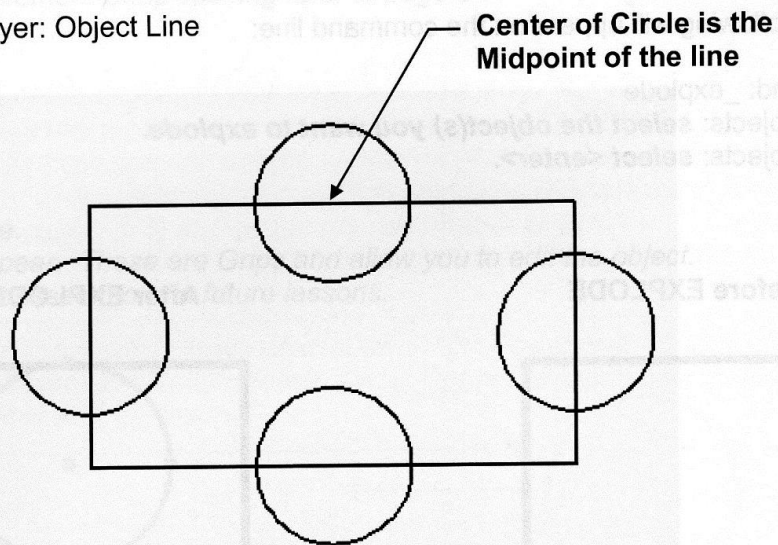


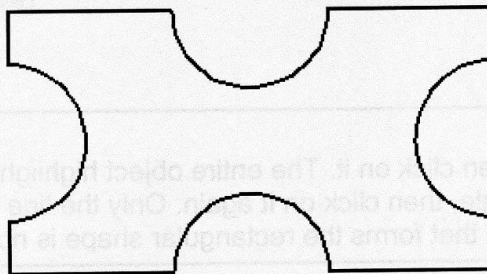
# EXERCISE 6A

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw** the objects below:
  - A. Use object snap **Midpoint** to locate the center for the Circles.
  - B. **Ortho (F8) ON** when drawing Horizontal and Vertical lines.
  - C. Turn **Increment Snap (F9) ON**
  - D. Use Layer: Object Line



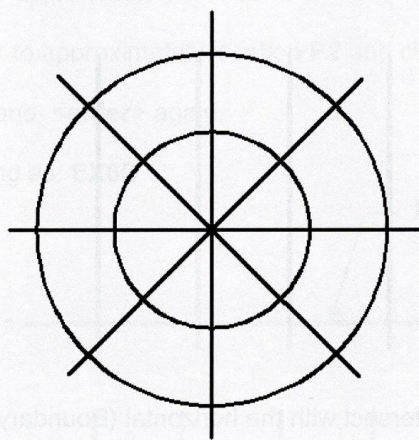
3. Trim the Circles and Rectangle to match the illustration below.
4. **Save** the drawing as: **EX6A**



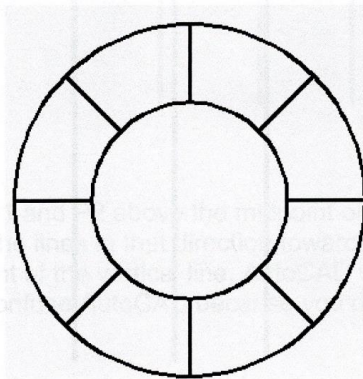
# EXERCISE 6B

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw** the objects below:
  - A. **Circles** should have the same center
  - B. **Ortho (F8) ON** when drawing Horizontal and Vertical lines.
  - C. **Ortho (F8) OFF** when drawing lines on an Angle.
  - D. Turn **Increment Snap (F9) OFF**
  - E. Use Layer: Object Line



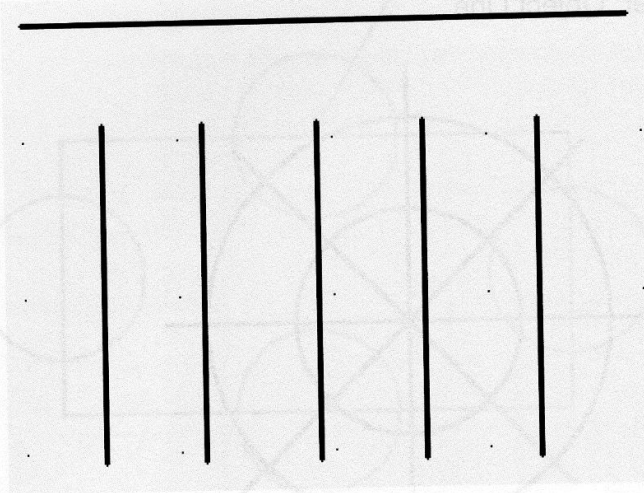
3. **TRIM** the Lines to match the illustration below.
4. **Save** the drawing as: **EX6B**



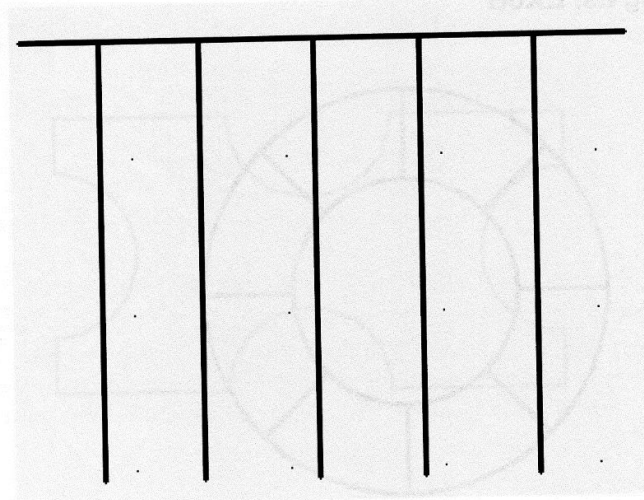
# EXERCISE 6C

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw the Lines** below exactly as shown.
  - A. **Ortho** (F8) **ON** when drawing Horizontal and Vertical lines.
  - B. Turn **Increment Snap** (F9) **ON**
  - C. Turn **Osnap** (F3) **OFF**
  - D. Use Layer: Object Line



3. **Extend** the vertical lines to intersect with the horizontal (Boundary) Line as shown below.
4. **Save** the drawing as: **EX6C**

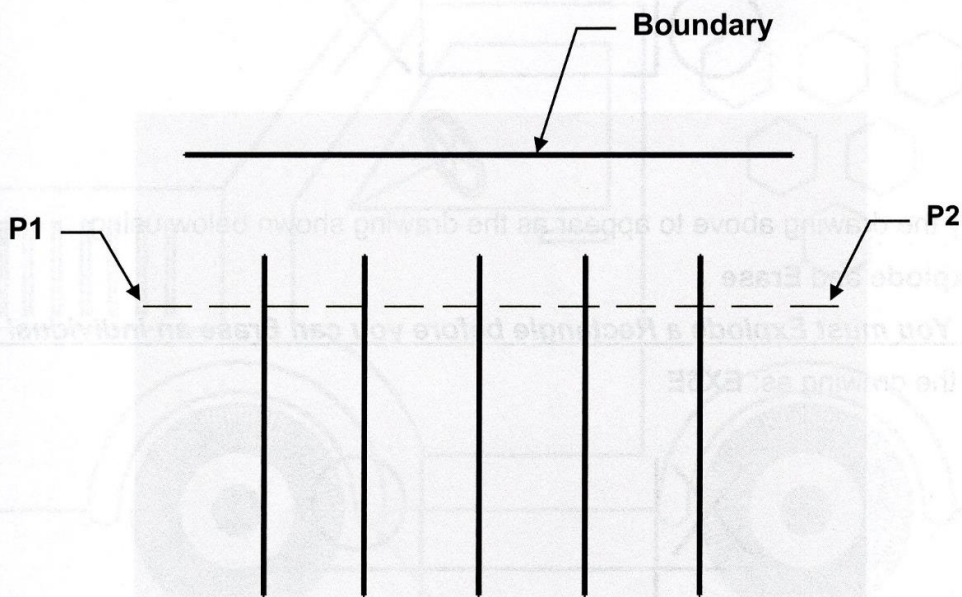




# EXERCISE 6D

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the **LINES** below exactly as shown.
3. Select the "**Extend**" command.
4. Select the "**Boundary**" <enter>
5. Now instead of clicking on each vertical line, type **F** <enter>.
6. Place the cursor approximately at location **P1** and click.
7. Move the cursor to approximately location **P2** and click.
8. Press <enter> and <enter> again.
9. **Save** the drawing as: **EX6D**



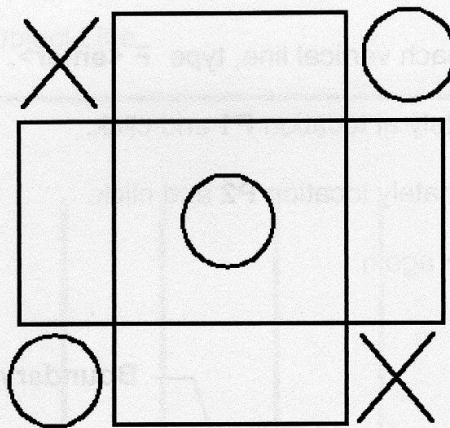
### Note:

Be careful to place P1 and P2 above the midpoint of the vertical lines. That instructs AutoCAD to extend the lines in that direction toward the boundary. If you place P1 and P2 below the midpoint of the vertical line, AutoCAD will look for a boundary in that direction. This will confuse AutoCAD because you did not select a boundary below.

# EXERCISE 6E

## INSTRUCTIONS:

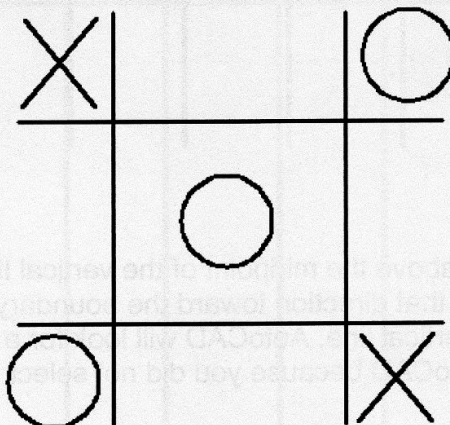
1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw** the objects below using:  
Rectangles, Circles and Lines (for the X's)  
Use Layer: Object Line



3. Modify the drawing above to appear as the drawing shown below using:  
**Explode and Erase**

**Note: You must Explode a Rectangle before you can Erase an individual line.**

4. **Save** the drawing as: **EX6E**





# EXERCISE 6F

## INSTRUCTIONS:

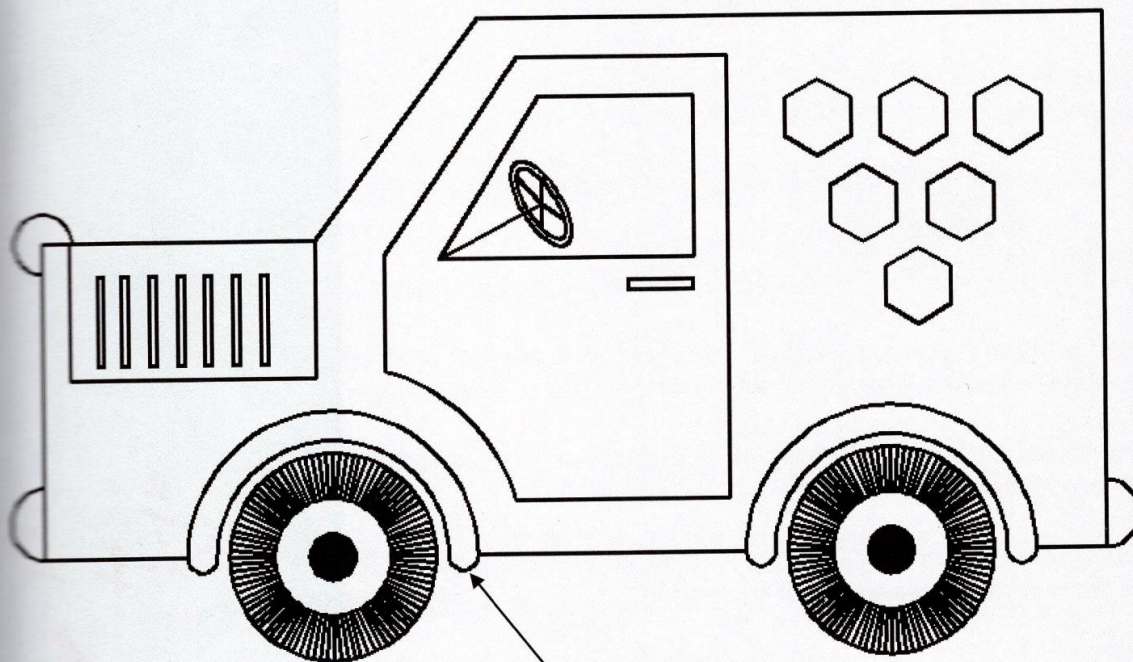
1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw** the objects below using all of the commands you have learned in the previous lessons.

Use whatever layers you desire

3. **Save** the drawing as: **EX6F**

*Have some fun with this one. But be very accurate.*

*All objects must intersect exactly. Zoom in and take a look to make sure.*



Use 2point Circle  
and Trim

Donuts with Fill turned OFF  
(Yours may not appear  
exactly the same as shown)