

Create a Layout with Multiple Viewports

Objective Domains within this challenge assignment are as follows:

- 4.1a Use the Page Setup Manager
- 4.1c Customize the size and shape of viewport boundaries
- 6.1.a Insert and modify blocks
- 1.1.d Create 2D isometric drawings

Video resources that may help with this challenge assignment are:

- 04_01 Create and manage layouts and viewports
- 06_01 Create blocks and apply attributes
- 01_12 Create 2D isometric drawings

In this challenge assignment you will create two new layouts, assign the correct sheet sizes in the Page Setup Manager, and create viewports per the instructions.

Open the **Sink_Layouts.dwg** file. Copy the existing layout (ISO A2) twice to create two new layouts. Name them ISO A1 and ISO A3. Edit the assigned sheet size for each layout with the sheet size they are named for, using the ISO expanded sheet sizes. Insert the appropriate title block (on the border layer) at 0,0 for each sheet. The title blocks are named **ISO A1 title block.dwg** and **ISO A3 title block.dwg** and are located in the dataset folder.

On the ISO A2 layout, create three equal-sized viewports (on the Viewports layer). Set the upper-left viewport to show a top view of the 3D sink. Set the lower-left viewport to show a front view of the 3D sink. Set the lower-right viewport to show a right view of the 3D sink. Set all three viewports at a 1:8 viewport scale and set the visual style to hidden.

On the ISO A3 layout, create a single viewport, set the viewport to show the 3D sink in SE Isometric (or something similar to the image below). Set the visual style to shaded or realistic and the viewport scale to 1:5.



Challenge Assignment 1



For an additional challenge, on the ISO A1 layout, use the VIEWBASE (from Model space) command to generate the front, top, right-side, and isometric views.

Challenge Assignment 1 Scoring Rubric

Grading Area	Points	Student Score	Comments
Layouts Created. Two new layouts created.	15		
Page Setup Assigned to Layouts. Page setups are properly created for the two new layout tabs.	20		
Title Blocks Inserted. Correct title blocks are inserted on the two new layout tabs.	15		
Viewports Created. Viewports are created as instructed in the exercise.	15		
Views in Viewports. All views and viewport scales are assigned/created correctly in all viewports.	20		
Layer Management. Correct layers assigned to title blocks and viewports.	15		
Final Score	100		
BONUS – Viewbase layout. Created top, front, right-side and isometric views with the VIEWBASE command as instructed in the additional challenge.	10		