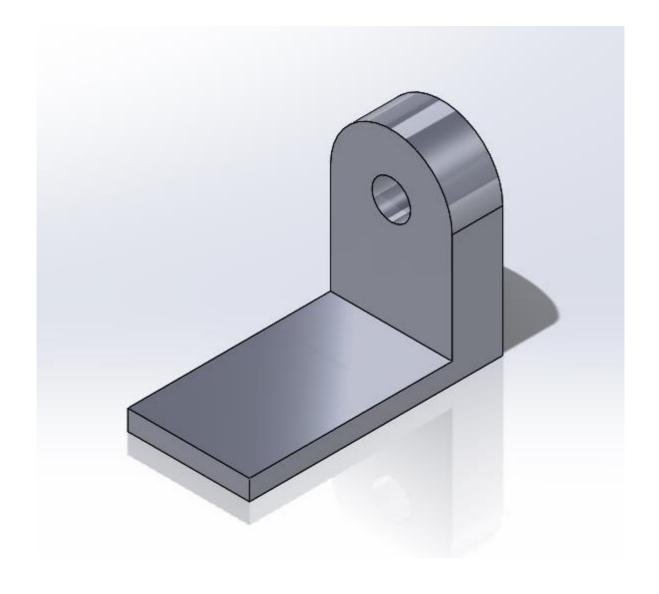
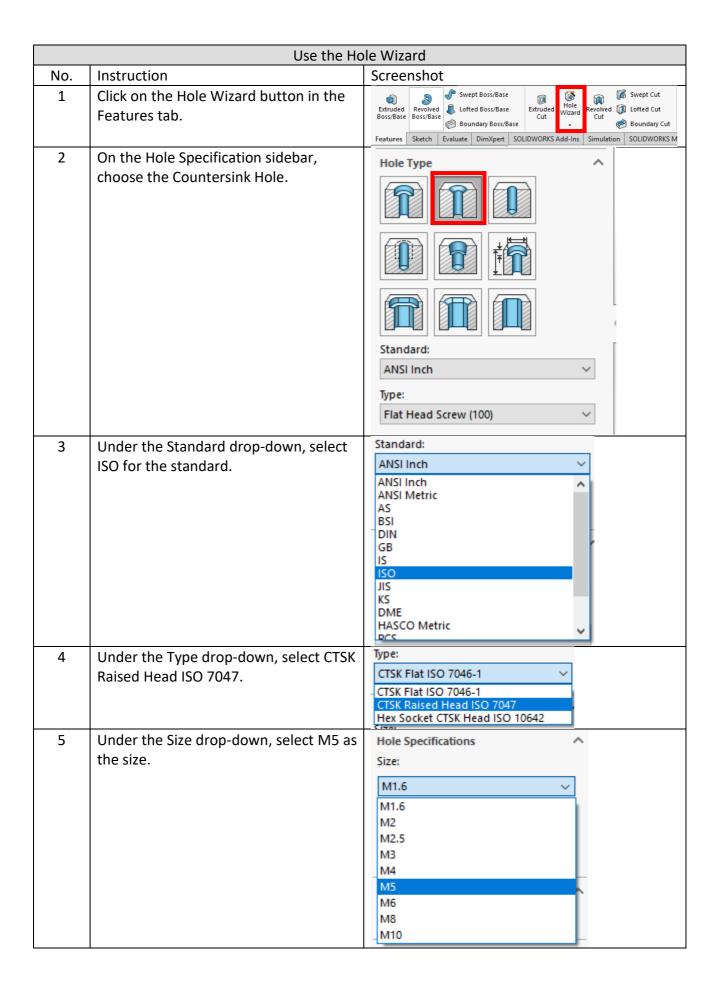
4 – Holes, Threads and Further Engineering Drawings

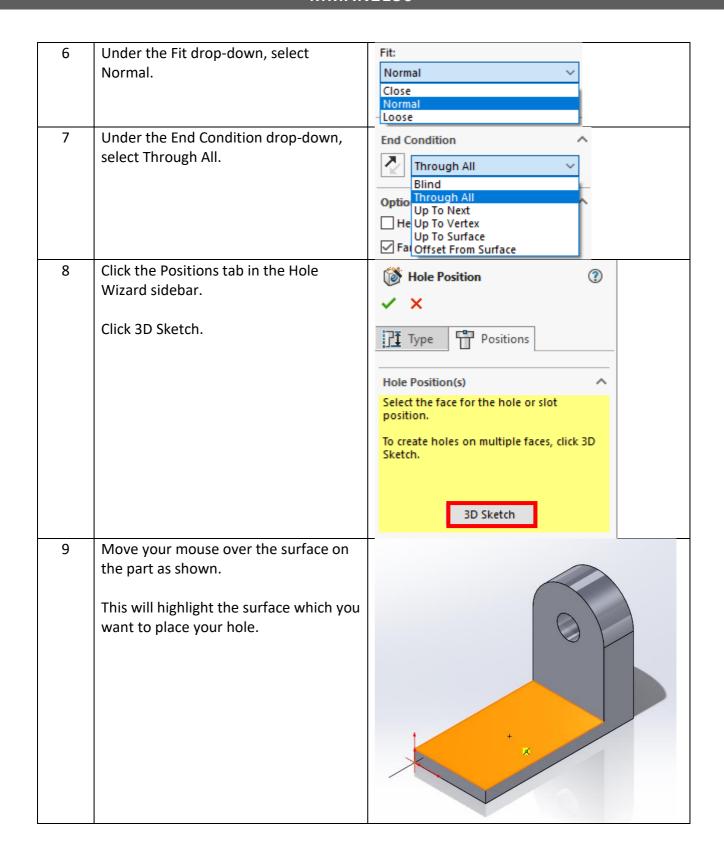
By following this tutorial, you will learn how to:

- 1. Use the Hole Wizard
- 2. Use the Measure tool
- 3. Create and show cosmetic threads
- 4. Dimension holes

For the purpose of this handout, please download "4-1.SLDPRT" to be used in this tutorial.

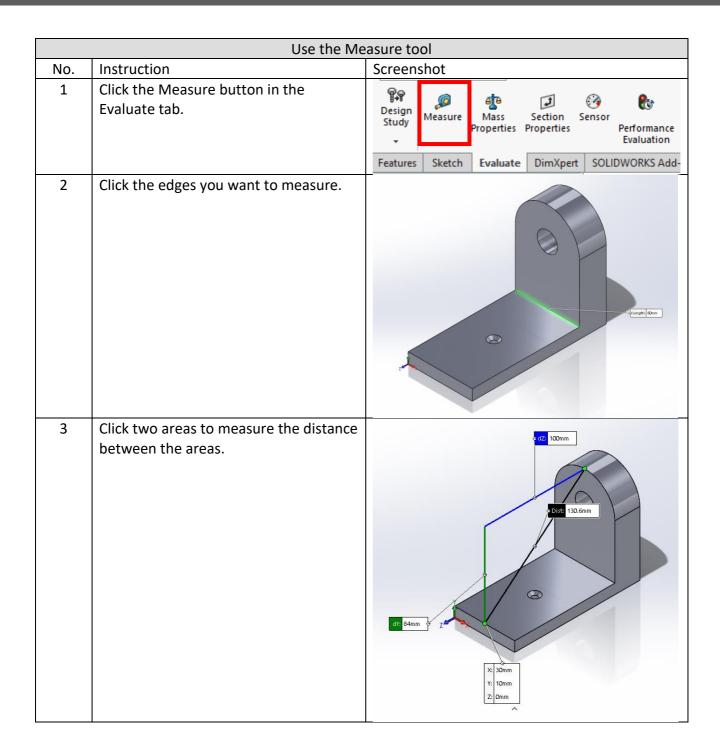


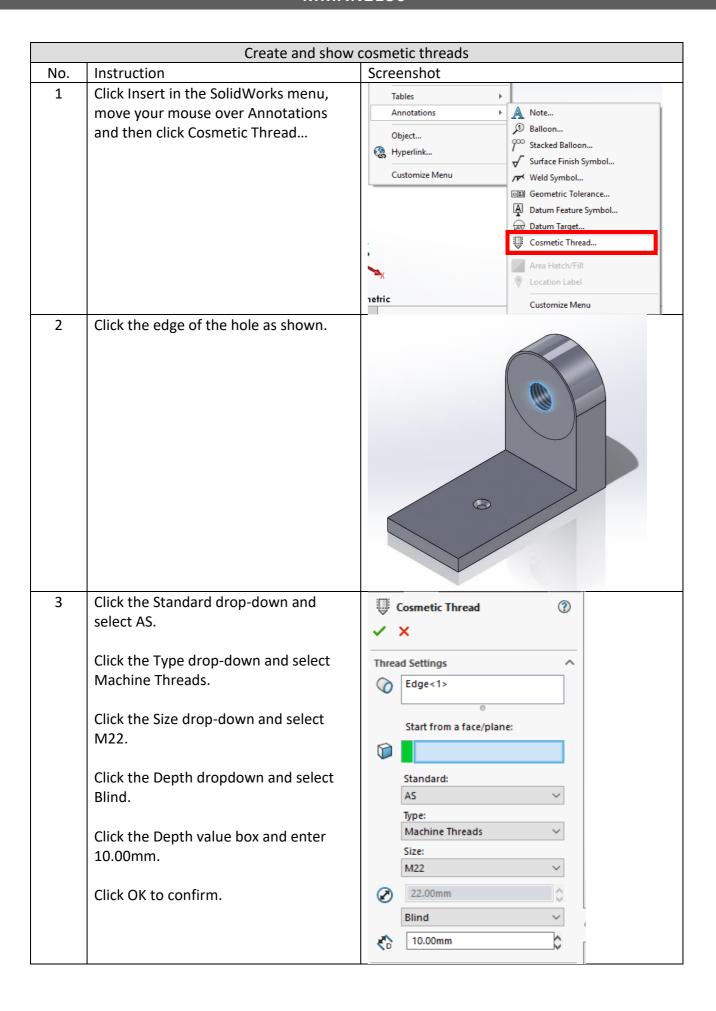




10 Click the middle of this surface. A preview of the hole will be displayed. Note: You can click on another area of the surface to create more holes. 11 Click the View Orientation button on the top of the workspace. Select the Normal To button. This will 何 orient you to view to 2D which will aid you in dimensioning the position of the hole. 12 Click on the Smart Dimension button on the Sketch tab. Sketch Smart Dimension Sketch Evaluate DimXpert SOL Features

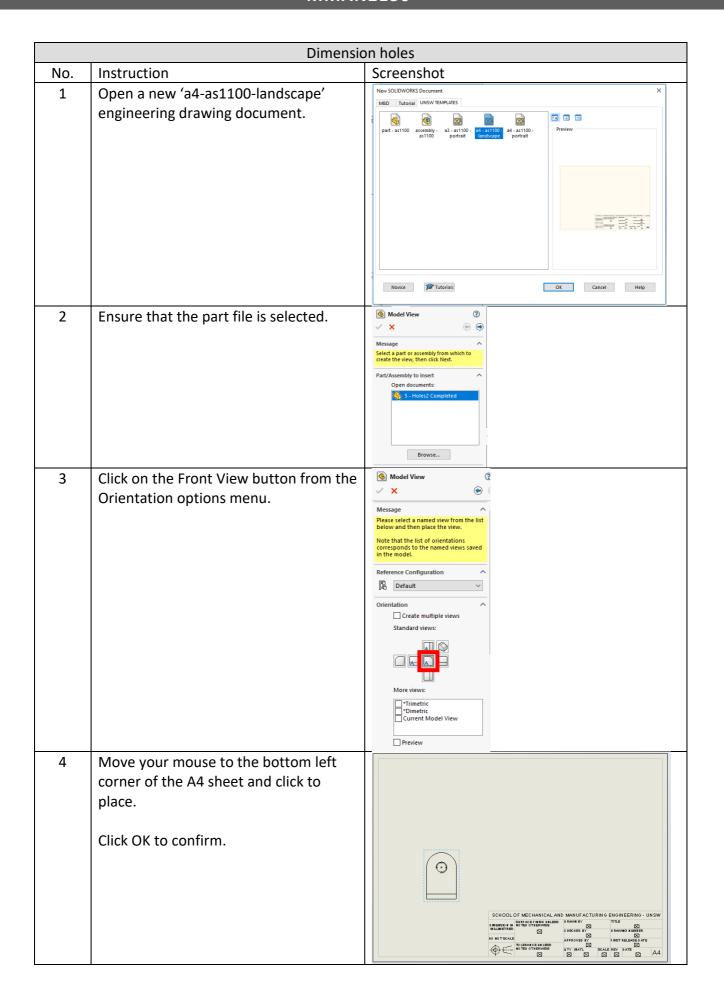
13 Dimension the hole as 50mm from the bottom edge and 30mm from the right edge of the part. Click OK to confirm and exit the Hole Wizard. ည 30 Click the Hidden Lines Visible button in 14 **A A** the Display Style menu. 0 Now you can clearly see the hole that you have created. 田

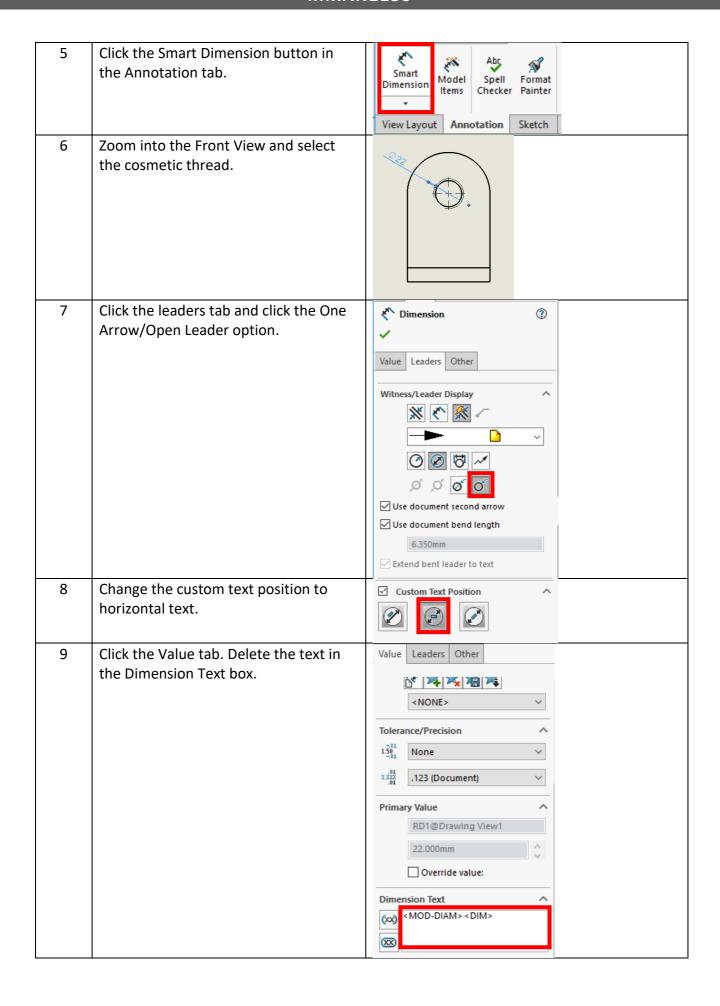


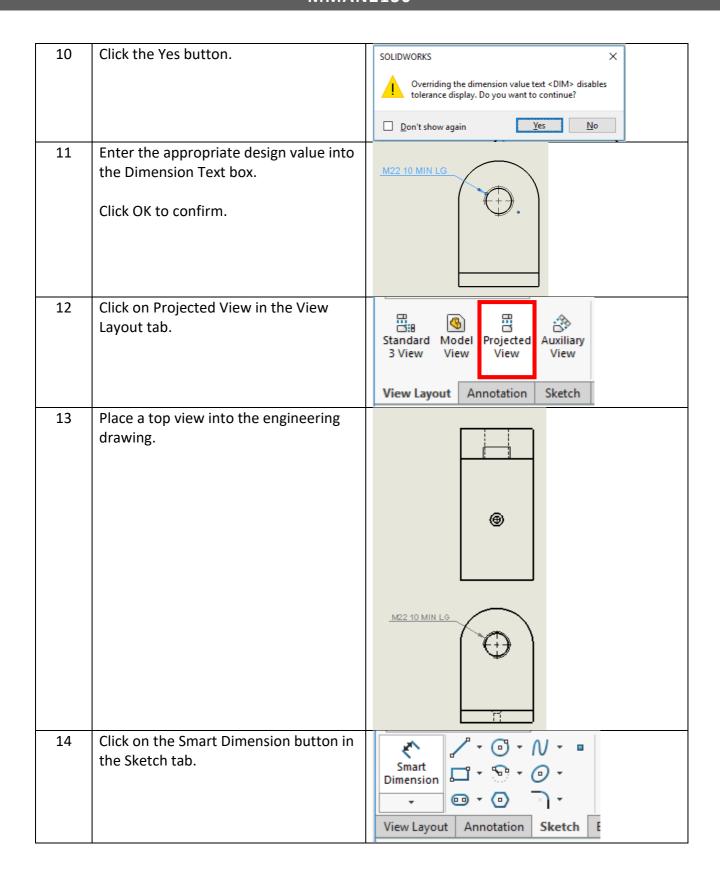


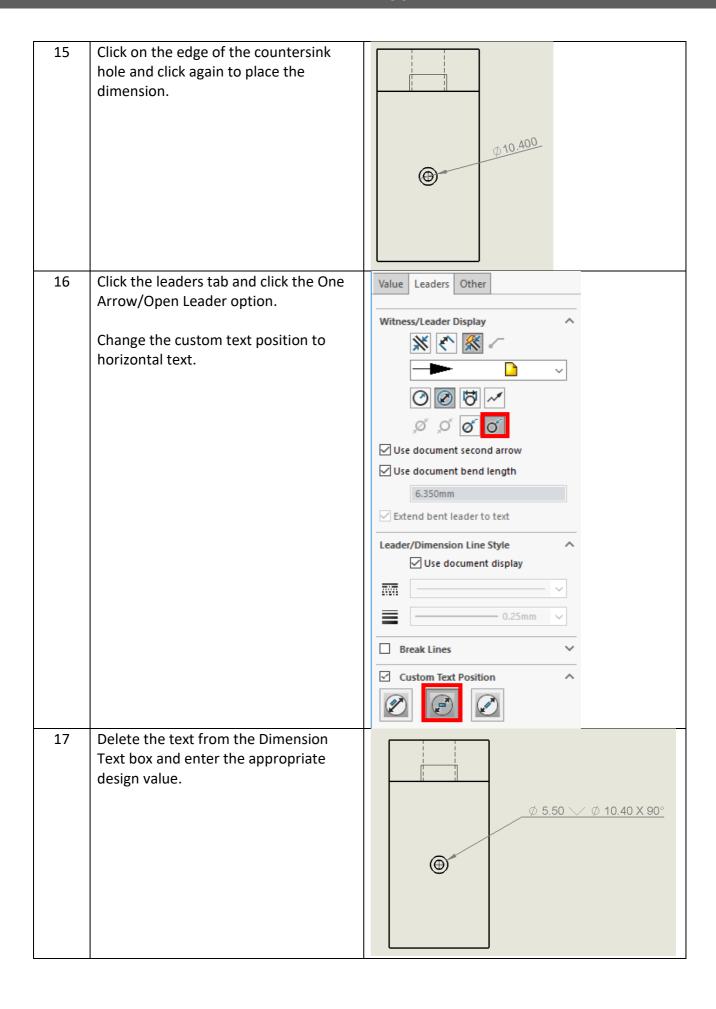
You will now see the shaded cosmetic 4 thread. 0 5 If you cannot see the shaded cosmetic - 🚊 - 🔊 - 🕞 - 📵 🖺 🕸 thread, click Options in the SolidWorks, Document Properties - Detailing click Document Properties, chick System Options Document Properties Detailing and ensure that Shaded Display filter Drafting Standard ☑ Cosmetic threads ☑ Shaded cosmetic threads - Annotations Cosmetic Threads is ticked. ✓ Datums
✓ Datum targets

☐ Feature dimensions Dimensions ✓ Geome - Virtual Sharps ✓ Surface finish Tables Reference dimensions Welds ___ DimXpert ☐ DimXpert dimensions ☐ Display all types Grid/Snap Point, Axis, and Coordinate System Units Hide names Model Display Material Properties Name font... Century Gothic Image Quality Sheet Metal Label font... Century Gothic Weldments Plane Display Always display text at the same size Configurations Text scale: 1:1 Display items only in the view in which they are created ☑ Display annotations Use assembly setting for all components









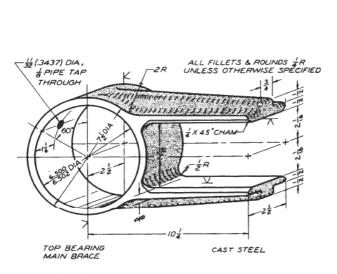


FIGURE 8.108 Problem 40: Top bearing.

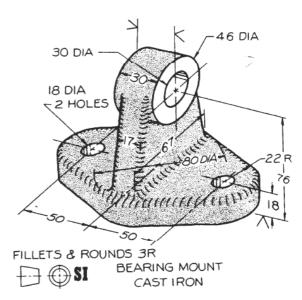


FIGURE 8.110 Problem 42: Bearing mount.

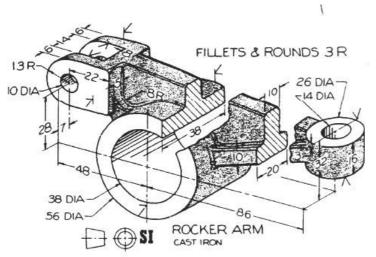


FIGURE 8.112 Problem 44: Rocker arm.

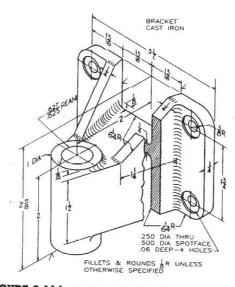


FIGURE 8.114 Problem 46: Swivel attachment.

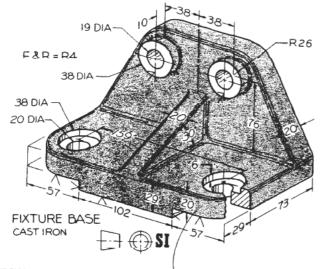


FIGURE 8.113 Problem 45:\Fixture base.

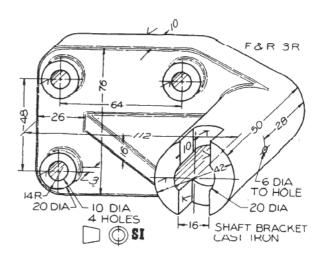


FIGURE 8.115 Problem 47: Shaft bracket.

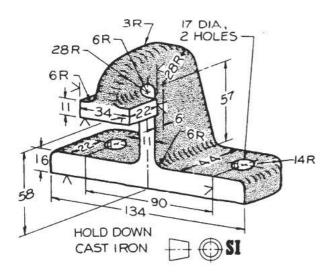


FIGURE 8.109 Problem 41: Hold down.

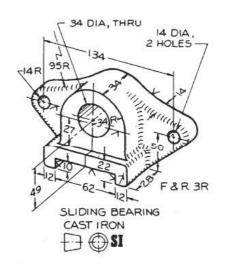


FIGURE 8.111 Problem 43: Sliding bearing.