Exercise 27-5

1. Continue from Exercise 27-4 or start AutoCAD.

2. Open the EX27-4 file you saved during Exercise 27-4.

3. Save a copy of EX27-4 as EX27-5. The EX27-5 file should be active.

4. Open the HEAVY HEX NUT block in the **Block Editor**.

5. Use the **ERASE** command to erase all grips assigned to constraint parameters. Use caution to remove just the grips, not the parameters or geometry.

6. Create a new non-annotative text style named ATT, and assign it the Arial font. Set the new text style current.

7. Use the **ATTDEF** command to create a non-annotative attribute using the following specifications:

Selected Modes: **Invisible**, **Preset**, **Lock position**

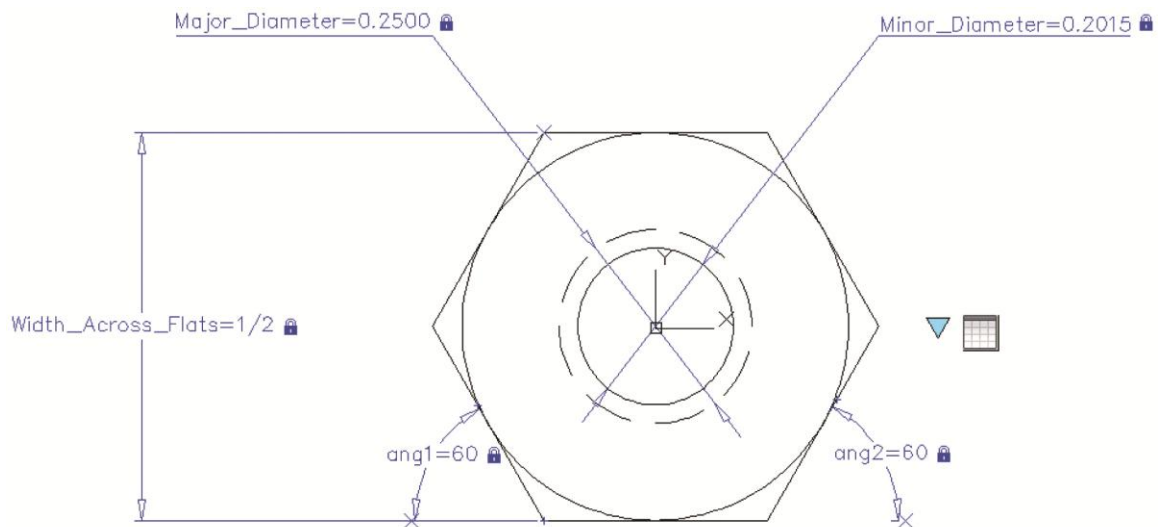Tag: DESIGNATION

Prompt: Enter designation.

Default: (leave blank)

Justification: **Top Center**

Text style: ATT

Text height: .0625

Rotation: 0

Insertion point: (Pick a location below the block geometry as shown.)

8. Access the **Parameters Manager** and create a user parameter named Thickness, with an expression of 15/64.

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9. Position a block table parameter with a grip as shown, and construct a block table with the following rows and columns:

Designation	Width_Across_Flats	Major_Diameter	Minor_Diameter	Thickness
1/4-20 Heavy Hex Nut	1/2	0.2500	0.2015	15/64
1/2-13 Heavy Hex Nut	7/8	0.5000	0.4255	31/64
5/8-11 Heavy Hex Nut	1-1/16	0.6250	0.5365	39/64
3/4-10 Heavy Hex Nut	1-1/4	0.7500	0.6525	47/64
7/8-9 Heavy Hex Nut	1-7/16	0.8750	0.7665	55/64
1-8 Heavy Hex Nut	1-5/8	1.0000	0.8775	63/64

10. Select the **Block properties must match a row in the table** check box, and audit the table to check for errors. Adjust the table as needed to correct any problems, and close the **Block Properties Table** dialog box.

11. Enter the **Test Block Window**.

12. Select the block to display the block table parameter grip. Use the grip and the shortcut menu repeatedly to view each block reference.

13. Close the **Test Block Window** and make changes to the block if the objects did not adjust as expected.

14. Retest the block if you made any changes.

15. Save the block and exit the **Block Editor**.

16. Insert the block into the current drawing and select it to display grips. Use the grip and the shortcut menu to activate the 7/8-9 Heavy Hex Nut.

17. Resave and close the file.

18. Keep AutoCAD open for the chapter review and problems, or exit AutoCAD if necessary.