CHAPTER 20 EXERCISES

1. **Screws**

    Complete the drawing of the screw shown in Figure ME20-1. *Group* the items together and *Copy* the *Group* two times so there is 1.5″ spacing between the screw centers as shown in Figure ME20-2. Add the *Lines* to represent an assembly. *Save* the drawing as **CH20EX1-M.**
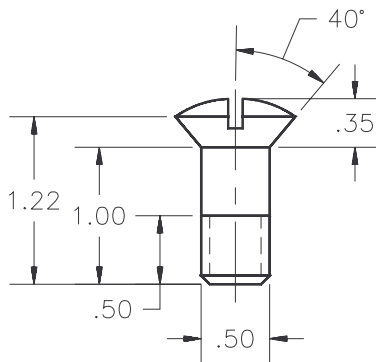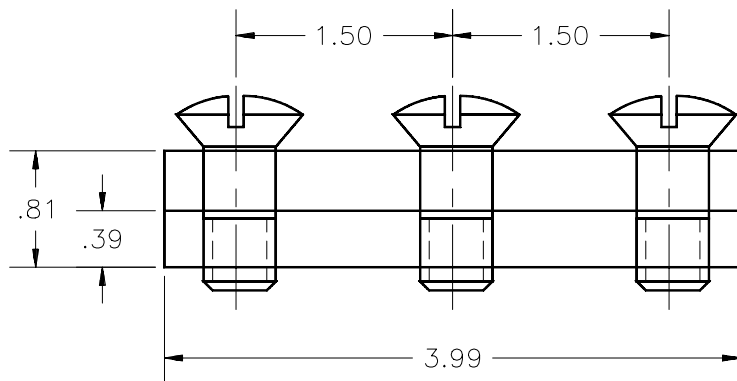
    Figure ME20-1 ————————— 　　**Figure ME20-2** ————————————————————
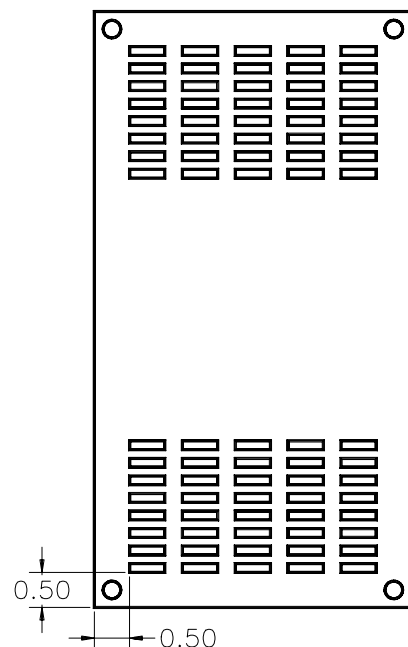

2. **Ventilation Panel (Part 1)**

    Open the ventilation panel created in Chapter 10 Exercise 3 named **VENTPNL**. Create a new *Layer* named *Holes.* Use *Object Selection Filters* to filter out all the objects except for the *Circles*. Use *Properties* to change the layer of the filtered objects to *Holes*. *List* one of the holes to ensure its layer has changed.

    Figure ME20-3 ——————————

3. **Ventilation Panel (Part 2)**

    Using the same drawing as the previous exercise, *Group* all of the rectangular vent openings and *Copy* the *Group* as shown in Figure ME20-3. Use *Qselect* and *Properties* to find and move the vent openings to a new *Layer* named **Vents.** *SaveAs* **CH20EX3-M.**

4. Gear Train

Open the **SGEAR** drawing created in Chapter 10 Exercise 2. Use *Group* to assign all objects to one group named **GEAR**. *Copy* the *Group* to complete the gear train shown in Figure ME20-4. *SaveAs* **CH20EX4-M.**

Figure ME20-4