I Venn Diagram. AII-2
Analyze This.

**Solution**

1. **All P are M.** Re-created the form.
   Some S are M.
   Some S are P.

2. **Venn Diagram (Boolean)**

   ![Venn Diagram]

   I don’t “see” the conc. clearly graphed in this VENN.
   ⇒ **The Arg is INVALID in FORM.**

3. **Check the 5 Laws.**
   1. ♦ 2. ✗ 3. ✗ 4. ✗ 5. ✗
   
   **Invalid:** Undistributed middle.

II §5.4 Reducing the Number of Terms p. 264.

EXAMPLE: §5.4: p. 266: #5: Reduce number of Terms & Evaluate.
All aircraft that disintegrate in flight are unsafe planes.
Therefore, no poorly maintained aircraft are safe planes, because all well-maintained aircraft are aircraft that remain intact in flight.

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III

**Solution**

1. **Dict.**
   D: Aircraft that disintegrate in flight.
   U: Unsafe planes.
   P: Poorly maintained aircraft.

2. **All D are U.**
   Therefore, **No P are non-U.**
   because All non-P are non-D.

3. **Std. Form**
   All D are U.
   All non-P are non-D. ⇒ All D are P.
   No P are non-U. ⇒ All P are U.

   **[Note: I know immediately that this argument is invalid, because its form, as shown directly above, is AAA-3 and we know that the only valid "AAA" is in Fig. 1, namely "Barbara." ]**
   But let’s go ahead with the "Programme."

4. **Venn.**

   ![Venn Diagram]

   **Invalid!**