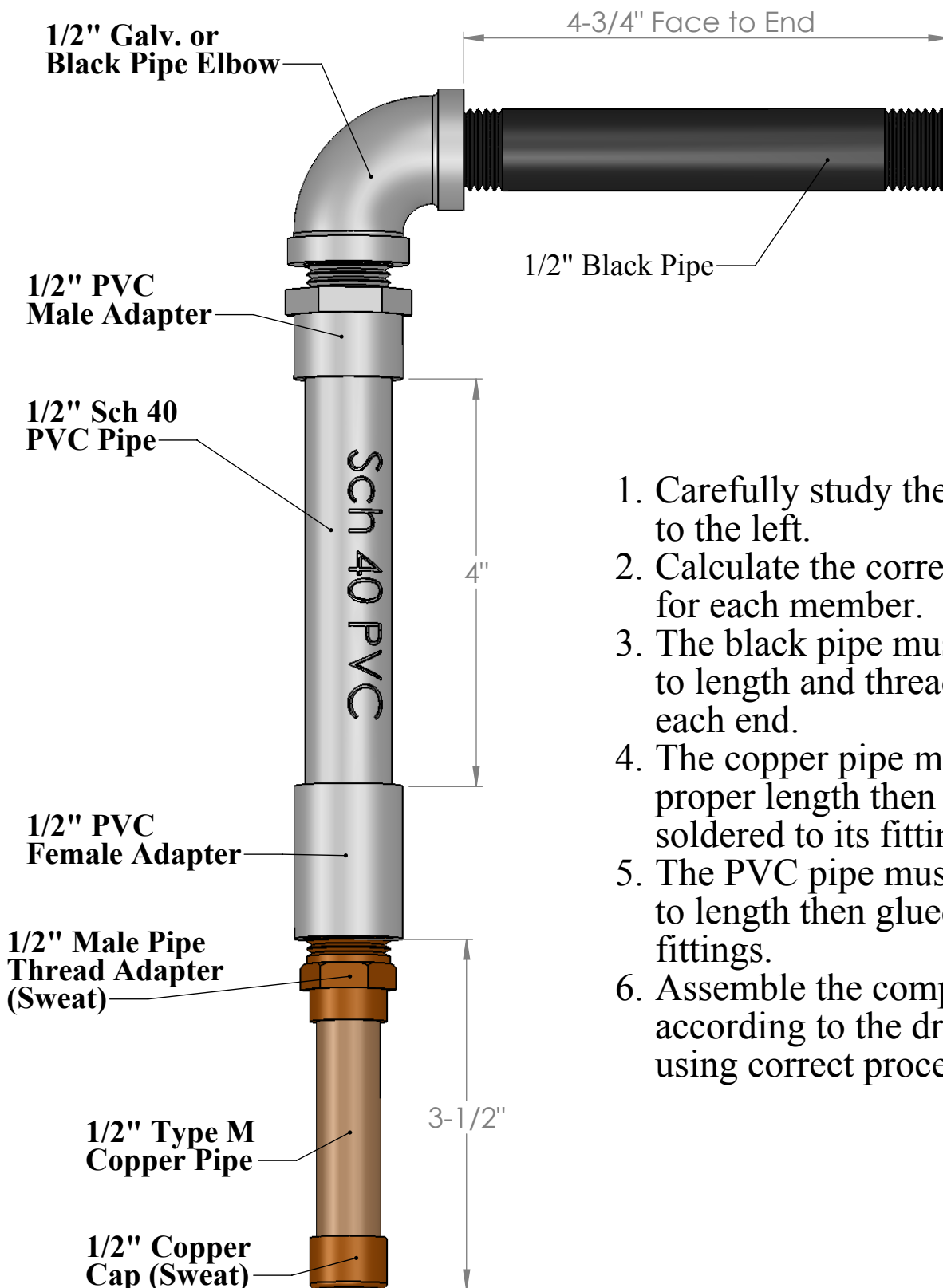


FFA State Finals 2024

Ag. Mechanics: Plumbing Skills



1. Carefully study the diagram to the left.
2. Calculate the correct lengths for each member.
3. The black pipe must be cut to length and threaded on each end.
4. The copper pipe must cut to proper length then sweat-soldered to its fittings.
5. The PVC pipe must be cut to length then glued to its fittings.
6. Assemble the components according to the drawing, using correct procedures.

Contestant No.
Name

Score Sheet

Score

	Points Possible	Points Earned
1. Safety and Work Habits: Good: 10, Bad: 0	10	<input style="width: 100%;" type="text"/>
2. Pressure Test		
Leaks: No leaks: 10, minor: 5, major: 0	10	<input style="width: 100%;" type="text"/>
3. Lengths		
PVC Length: 2 pts off per 1/16" over or under	6	<input style="width: 100%;" type="text"/>
Copper Length: 2 pts off per 1/16" over or under	6	<input style="width: 100%;" type="text"/>
Black Pipe: 2 pts off per 1/16" over or under	6	<input style="width: 100%;" type="text"/>
4. Proper Assembly		
According to illustration	15	<input style="width: 100%;" type="text"/>
5. PVC Work		
Depth into fittings	2	<input style="width: 100%;" type="text"/>
Deburr:	3	<input style="width: 100%;" type="text"/>
Primer: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
Cement: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
Pipe Dope: Good: 4, Fair: 2, None: 0	4	<input style="width: 100%;" type="text"/>
6. Copper Work		
Depth into fittings	2	<input style="width: 100%;" type="text"/>
Deburr:	3	<input style="width: 100%;" type="text"/>
Solder: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
Pipe Dope: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
7. Black Pipe		
Square Cut:	2	<input style="width: 100%;" type="text"/>
Deburr:	3	<input style="width: 100%;" type="text"/>
Thread Length: 2 pts off per 1/8" over, under	4	<input style="width: 100%;" type="text"/>
Thread Quality: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
Pipe Dope: Good: 4, Fair: 2, Poor: 0	4	<input style="width: 100%;" type="text"/>
Total	100	<input style="width: 100%;" type="text"/>