Draw a Layered Magnolia Bloom on a Branch

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a bloom with five petals: two back, one side, two front. Use a cup oval 3 units wide and 2 units tall, a receptacle 0.5 unit wide, and a stalk 1.5 units long. State your overlap order.

Answer: Back petals first, then side, then front. The side petal overlaps both back bases; front petals overlap the side base. All bases meet the cup.

Reason: Five petals still follow the three-group order. The side petal bridges back and front so the cup reads as layered.

Check: Trace each petal base to the cup; confirm no base touches the branch and the overlap order matches your statement.

Task 2

A branch is 8 units long with a joint at 4 units. Draw a bud with a stalk 1 unit long and a bloom with a stalk 2 units long from the same joint. Use equal receptacles. State a hypothetical bud-to-bloom width ratio.

Answer: Bud is a narrow teardrop with two scale lines; bloom uses seven petals. Hypothetical ratio: bud length is half the bloom width. Both stalks meet the same node.

Reason: Equal receptacles keep scale comparable. Different stalk lengths show bud and bloom attachment without changing the joint.

Check: Measure both receptacles to confirm equality; check both stalks meet the node and the branch passes behind both.

Task 3

Draw a bloom tilted 30 degrees to the left. Keep the cup oval 4 by 3 units and the receptacle 1 unit wide. Describe how the petal tips shift and where the stalk meets the branch.

Answer: The cup oval tilts left; back petal tips point left and up, side tips point left and out, front tips point left and down. The stalk meets the branch at a node below the receptacle.

Reason: Tilting the cup rotates all petal tips together while bases stay in the cup. The stalk remains the only branch contact.

Check: Check that all petal bases still meet the tilted cup and that the stalk meets the node at a small angle.

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Original tasks 4 / complete keys

Task 4

Draw a branch with one open bloom and one bud. Use a branch 10 units long, a joint at 3 units for the bud and a joint at 7 units for the bloom. State your line-weight values and check the three rules.

Answer: Bud at 3 units with a 1-unit stalk; bloom at 7 units with a 2-unit stalk. Hypothetical weights: outline 1, overlap 0.5, branch 1.5. All petal bases meet cups; both stalks meet nodes; no petal touches the branch.

Reason: Two joints on one branch test attachment consistency. Declared weights make the drawing checkable.

Check: Verify each joint has a node, each stalk is narrower than the branch, and the three rules pass for both flowers.

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Source rubric / reflection

- [ ] Bloom shows three petal groups in back, side, front order.
- [ ] Every petal base meets the cup, not the branch.
- [ ] Stalk connects receptacle to a node on the branch at a small angle.
- [ ] Line-weight convention is declared and applied consistently.
- [ ] Bloom and bud comparison uses the same receptacle size and a stated ratio.

Reflection: What did you check, what did you change, and what will you try next?