Drawing Mouths from Front, Angled, and Open Perspectives

Original tasks 1, 2, 3 / complete keys

Task 1

Front view: width 8 units, upper lip 1 unit, lower lip 2 units. Mark corners at 4 units from the centerline. Describe the seam and corner alignment.

Answer: Corners sit 4 units left and right of the centerline on the same horizontal level; the seam curves gently between them.

Reason: Equal corner distances and a level seam follow the front-view construction.

Check: Measure both corner distances and confirm they equal 4 units; confirm the seam endpoints share a horizontal level.

Task 2

Three-quarter view: the front-view half-width is 4 units (corners 4 units from the centerline). In the angled view the near corner is 3 units from the centerline and the far corner is 2 units. If the front upper lip is 1 unit thick, what far upper-lip thickness is consistent with foreshortening?

Answer: About 0.5 units, because the far corner is compressed to 2/4 of the front half-width, and 1 times 2/4 equals 0.5.

Reason: Foreshortening compresses the far side in proportion to how far the far corner has moved toward the centerline relative to the front half-width.

Check: Divide the far corner distance by the front half-width (2 divided by 4 equals 0.5), multiply the front upper-lip thickness by that ratio (1 times 0.5 equals 0.5), and compare with the recorded value.

Task 3

Open view: upper lip 1 unit, lower lip 2 units, jaw opening 3 units. The mouth width is 6 units. Check whether the opening is consistent across the width if the left opening is 3 units and the right opening is 2 units.

Answer: No; the opening should be consistent, so both sides should measure 3 units or the difference should be recorded as an intentional asymmetry.

Reason: Jaw opening is a vertical distance that should remain consistent unless deliberately varied.

Check: Measure the opening at left, center, and right; compare values in the same units.

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Original tasks 4 / complete keys

Task 4

A comparison grid shows front upper lip 1 unit, angled far upper lip 0.5 units, and far-corner ratio 2/3. Is the angled value consistent with foreshortening?

Answer: No; the consistent example is about 0.67 units, so 0.5 units is stronger compression and must be labeled intentional or adjusted.

Reason: Multiply front thickness by the far-corner ratio to estimate foreshortened thickness.

Check: Compute 1 times 2/3, compare with 0.5, and record the difference.

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Source rubric / reflection

- [ ] Corners are marked at equal distances from the centerline in front view.
- [ ] Seam curve and corner positions are consistent with the chosen view.
- [ ] Upper and lower lip thicknesses are measured separately in the same units.
- [ ] Angled view records foreshortening rather than changing lip shape arbitrarily.
- [ ] Open view keeps corners near the seam and measures jaw opening consistently.
- [ ] Valid alternative lip shapes and letter styles are accepted when alignment and proportion checks pass.

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