Griffin Beak Perspectives: Side, Front, and Angled Drawing

Original tasks 1, 2, 3 / complete keys

Task 1

Side view: beak length 8 cm, hook depth 2 cm. Draw the beak, label features, and compute the hook-depth ratio.

Answer: Hook depth divided by beak length is 2 divided by 8, or 0.25. The drawing should show a hook depth about one-quarter of the beak length.

Reason: The ratio check confirms the hook is not too deep or too shallow relative to the chosen length.

Check: Measure the drawn hook depth and beak length in centimeters; divide and compare to 0.25.

Task 2

Front view: cere width 5 cm, hook width 2.5 cm. Draw the symmetrical beak and compute the taper ratio.

Answer: Taper ratio is 2.5 divided by 5, or 0.5. The hook width should be half the cere width.

Reason: A taper ratio makes the front view checkable and prevents accidental widening of the hook.

Check: Measure cere width and hook width; divide hook by cere and compare to 0.5. Also check left and right distances from the centerline are equal.

Task 3

Angled view: side length 7 cm, foreshortening factor 0.8. Draw the angled beak and compute the expected angled length.

Answer: Expected angled length is 7 times 0.8, or 5.6 cm. The drawn angled length should be close to 5.6 cm.

Reason: Foreshortening shortens the apparent length; the factor gives a simple arithmetic check.

Check: Measure the angled beak length and compare to 5.6 cm. Recompute 7 times 0.8 to verify.

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Original tasks 4 / complete keys

Task 4

All three views: choose your own beak length and hook depth, draw side, front, and angled views, label features, and state one ratio check for each view.

Answer: Answers vary. Example: side length 6 cm, hook depth 1.5 cm gives ratio 0.25; front cere width 4 cm, hook width 2 cm gives ratio 0.5; angled factor 0.85 gives expected length 5.1 cm. All features are labeled.

Reason: Choosing your own values builds independence while keeping checks simple and consistent.

Check: Verify each stated ratio by measuring the drawing and recomputing the arithmetic with consistent units.

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Source rubric / reflection

- [ ] Hook, cere, and ridge are labeled in every view.
- [ ] Side view hook-depth ratio is computed and close to the chosen value.
- [ ] Front view symmetry is checked with paired measurements from the centerline.
- [ ] Angled view foreshortening ratio is computed and close to the chosen factor.
- [ ] Construction lines are light and do not obscure the final features.
- [ ] Valid stylistic alternatives are accepted if the three features remain readable and checks pass.

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