Realistic Owl Face Drawing: Facial Disk, Eye Rings, and Beak Placement

Original tasks 1, 2 / complete keys

Task 1

A face width is 8 cm. Calculate the face height, eye line from the top, outer eye ring diameter, iris diameter, and pupil diameter using the lesson convention.

Answer: Face height = 9.6 cm; eye line from top = 4.32 cm; outer eye ring = 2.4 cm; iris = 1.44 cm; pupil = 0.504 cm.

Reason: Multiply face width by 1.2 for height, then height by 0.45 for eye line. Multiply face width by 0.30 for outer ring, then outer ring by 0.60 for iris, then iris by 0.35 for pupil.

Check: Recompute each value and confirm the pupil is smaller than the iris, which is smaller than the outer ring; sum the two outer rings plus beak base and gaps to ensure they fit within 8 cm.

Task 2

A face width is 12 cm and face height is 14.4 cm. Find the beak base width, beak length, and the gap on each side between an eye ring and the beak. Then state whether two 3.6 cm eye rings plus the beak base and two gaps fit within the face width.

Answer: Beak base width = 1.8 cm; beak length = 2.88 cm; gap each side = 0.6 cm. Two eye rings = 7.2 cm; plus beak base 1.8 cm plus two gaps 1.2 cm equals 10.2 cm, which fits within 12 cm with 1.8 cm remaining for outer margins.

Reason: Use 0.15 of face width for beak base, 0.20 of face height for beak length, and 0.05 of face width for each gap. Add the components and compare to face width.

Check: Verify the arithmetic: 7.2 + 1.8 + 1.2 = 10.2, and 12 − 10.2 = 1.8. Confirm the remaining margin is positive and roughly balanced on both sides.

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Original tasks 3, 4 / complete keys

Task 3

An eye ring is drawn as an oval 4 cm wide and 3 cm tall. Using the lesson percentages measured from the ring width, find the iris width and pupil width. Explain whether an oval ring is allowed.

Answer: Iris width = 2.4 cm; pupil width = 0.84 cm. An oval ring is allowed as a valid alternative under the convention.

Reason: Measure the iris at 0.60 of the ring width and the pupil at 0.35 of the iris width. The convention explicitly permits oval or tilted rings.

Check: Check that 2.4 is 60 percent of 4, and 0.84 is 35 percent of 2.4. Confirm the pupil is centered within the iris and the highlight remains clear.

Task 4

A drawing has a face width of 9 cm. The eye line is placed at 5 cm from the top and the face height is 11 cm. Using the lesson convention, calculate the correct eye line from the top and state the difference. Then calculate the outer eye ring diameter and the beak base width.

Answer: Correct eye line = 0.45 × 11 = 4.95 cm; difference = 5 − 4.95 = 0.05 cm. Outer eye ring = 0.30 × 9 = 2.7 cm; beak base width = 0.15 × 9 = 1.35 cm.

Reason: The eye line is a percentage of face height, not face width. Subtract the correct value from the placed value to find the difference. Use face width for ring and beak base percentages.

Check: Recompute 0.45 × 11 and 0.30 × 9 and 0.15 × 9. Confirm the difference is small and that the ring and beak values are consistent with the face width.

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Source rubric / reflection

- [ ] Facial disk width and height follow the chosen ratio within 10 percent.
- [ ] Eye line and beak base positions match the stated percentages within 10 percent.
- [ ] Eye rings are concentric and the iris and pupil percentages are measured from the outer ring.
- [ ] A clear highlight is left unfilled at the upper pupil edge.
- [ ] Beak base width and length match the stated percentages within 10 percent.
- [ ] Facial disk shading uses three tonal zones with radiating strokes and no individual feather outlines.
- [ ] Valid alternatives such as oval eye rings or a slightly asymmetric facial disk are accepted if the proportional checks still pass.

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