Draw a Dragon Eye: Slit Pupil, Iris, Lid Folds, and Scaled Brow

Original tasks 1, 2, 3 / complete keys

Task 1

An eye is 50 mm wide and 25 mm high. Using the lesson convention, what are the pupil height and pupil width?

Answer: Pupil height is 17.5 mm and pupil width is 5 mm.

Reason: Pupil height is 70 percent of eye height: 0.70 times 25 mm equals 17.5 mm. Pupil width is 10 percent of eye width: 0.10 times 50 mm equals 5 mm.

Check: Multiply 25 by 0.70 and 50 by 0.10. Confirm the pupil is centered and narrower than the iris ring.

Task 2

An eye is 80 mm wide. You mark the left corner 40 mm from the center. Where should the right corner be, and what is the total eye width?

Answer: The right corner should be 40 mm from the center, and the total eye width is 80 mm.

Reason: Symmetry requires equal distances from the center. 40 mm plus 40 mm equals 80 mm.

Check: Measure both halves from the center point. They should match within a few millimeters.

Task 3

You plan three lid folds spaced 5 mm apart above the upper lid. What is the distance from the first fold to the third fold?

Answer: The distance is 10 mm.

Reason: Three folds create two gaps. Two gaps of 5 mm each equal 10 mm.

Check: Count the gaps, not the folds. Multiply the number of gaps by the spacing.

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Original tasks 4 / complete keys

Task 4

A brow row has six scale rings. Each ring overlaps the next by 2 mm, and each ring is 8 mm wide. What is the total brow row length if the rings are placed in a straight line?

Answer: The total length is 38 mm.

Reason: Six rings of 8 mm give 48 mm before overlap. There are five overlaps of 2 mm each, totaling 10 mm. 48 mm minus 10 mm equals 38 mm.

Check: Add ring widths, subtract the overlap for each gap, and confirm the number of gaps is one less than the number of rings.

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Source rubric / reflection

- [ ] Eye width and height are measured and the halves are balanced within a few millimeters.
- [ ] Pupil is a narrow vertical lens centered on the eye axis.
- [ ] Iris ring is even and shaded darker near the pupil and lid edges.
- [ ] Two or three lid folds follow the upper lid and are evenly spaced.
- [ ] Scale rings overlap consistently along the brow curve.
- [ ] Final contrast separates pupil, iris, folds, and brow clearly.

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