Draw a Tiger Eye: Slit Pupil, Amber Bands, and Fur Rim

Original tasks 1, 2, 3 / complete keys

Task 1

An eye opening is 8 cm wide and 5 cm tall. Where should the vertical midline and horizontal midline cross, and what pupil height is reasonable if the pupil is 70 percent of the eye height?

Answer: The midlines cross at the center, 4 cm from each side and 2.5 cm from top and bottom. A reasonable pupil height is 3.5 cm (70 percent of 5 cm).

Reason: The center is half the width and half the height. Multiply the eye height by 0.70 to get the pupil height.

Check: Confirm 8 divided by 2 equals 4, 5 divided by 2 equals 2.5, and 5 times 0.70 equals 3.5.

Task 2

A drawing has three amber bands. The outer band is 1.2 cm wide, the middle is 1.0 cm, and the inner is 0.8 cm. Is the band width variation within 20 percent of the middle band?

Answer: Yes. The outer band is 20 percent wider than the middle, and the inner band is 20 percent narrower, so both are within the 20 percent limit.

Reason: Compare each band to the middle band: 1.2 minus 1.0 equals 0.2, and 0.2 divided by 1.0 equals 20 percent. The inner band differs by the same amount.

Check: Calculate 1.2 divided by 1.0 equals 1.20 and 0.8 divided by 1.0 equals 0.80.

Task 3

An eye opening is 10 cm wide. A fur rim is drawn 1.5 cm wide on the left and 1.0 cm wide on the right. Does the rim stay within a 1 cm to 1.2 cm hypothetical target range?

Answer: No. The left side is 1.5 cm, which exceeds the 1.2 cm target, and the right side is 1.0 cm, which is at the lower edge. Adjust the left side to 1.2 cm or less.

Reason: Compare each measured width to the stated range. The left side is outside the range; the right side is acceptable but at the boundary.

Check: Check 1.5 is greater than 1.2 and 1.0 is within 1.0 to 1.2.

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Original tasks 4 / complete keys

Task 4

A pupil is drawn 0.5 cm wide and 4 cm tall in a 6 cm tall eye. The pupil touches the top iris edge. Name two fixes and state the corrected pupil height if it should be 60 percent of eye height.

Answer: Fix one: shorten the pupil so it does not touch the iris edge. Fix two: recenter the pupil on the vertical midline. The corrected height is 3.6 cm (60 percent of 6 cm).

Reason: Touching the edge breaks the slit pupil convention. Recentering keeps the pupil on the midline. Multiply 6 by 0.60 for the corrected height.

Check: Confirm 6 times 0.60 equals 3.6 and that the new pupil leaves a gap at top and bottom.

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Source rubric / reflection

- [ ] Pupil is vertical, centered on the vertical midline, tapered at both ends, and does not touch the iris edge.
- [ ] Iris shows at least three concentric amber bands with the darkest band nearest the pupil.
- [ ] Fur rim stays outside the eye opening, is narrow, and uses outward directional strokes.
- [ ] Proportions are consistent with the chosen eye size; band width variation stays within about 10 to 20 percent.
- [ ] Edges are clean, guide lines are erased, and the pupil has strong contrast.

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