Draw Owl Eyes: Pupil Dilation and Iris Ring Detail

Original tasks 1, 2 / complete keys

Task 1

Draw two owl eye ovals 5 cm wide and 3 cm tall with a 1.5 cm gap. Draw an iris in each eye at 70 percent of the eye width. In the left eye, draw a constricted pupil at 25 percent of the iris width. In the right eye, draw a dilated pupil at 50 percent of the iris width. Add two iris rings in each eye.

Answer: Eye ovals: 5 cm by 3 cm. Iris width: 3.5 cm (70 percent of 5 cm). Left pupil: 0.875 cm (25 percent of 3.5 cm). Right pupil: 1.75 cm (50 percent of 3.5 cm). Two concentric rings inside each iris, following the iris oval.

Reason: The iris width is calculated as 0.70 times the eye width. Pupil widths are calculated as the given percentage of the iris width. The rings are drawn inside the iris, not the pupil.

Check: Measure the iris width and pupil widths with a ruler. Confirm the left pupil is about half the width of the right pupil. Check that the rings are evenly spaced and oval.

Task 2

Draw a single owl eye oval 8 cm wide and 5 cm tall. Draw an iris at 75 percent of the eye width. Draw a dilated pupil at 60 percent of the iris width. Add three iris rings. Label the pupil width.

Answer: Eye oval: 8 cm by 5 cm. Iris width: 6 cm (75 percent of 8 cm). Pupil width: 3.6 cm (60 percent of 6 cm). Three concentric rings inside the iris. Label: 'pupil 3.6 cm'.

Reason: The iris width is 0.75 times 8 cm. The pupil width is 0.60 times the iris width. Three rings are drawn inside the iris oval.

Check: Measure the iris and pupil widths. Confirm the pupil is centered and leaves a margin to the iris edge. Check that three rings are visible and evenly spaced.

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Original tasks 3, 4 / complete keys

Task 3

Draw two owl eye ovals 4 cm wide and 2.5 cm tall with a 1 cm gap. Draw an iris in each eye at 80 percent of the eye width. Draw a constricted pupil in both eyes at 20 percent of the iris width. Add two iris rings in each eye.

Answer: Eye ovals: 4 cm by 2.5 cm. Iris width: 3.2 cm (80 percent of 4 cm). Pupil width: 0.64 cm (20 percent of 3.2 cm) in both eyes. Two concentric rings inside each iris.

Reason: Both eyes have the same pupil size because the prompt specifies constricted pupils in both. The iris width is 0.80 times the eye width, and the pupil width is 0.20 times the iris width.

Check: Measure both pupils to confirm they are equal. Check that the iris is centered and the rings are oval and evenly spaced.

Task 4

Draw two owl eye ovals 7 cm wide and 4 cm tall with a 2 cm gap. Draw an iris in each eye at 70 percent of the eye width. In the left eye, draw a dilated pupil at 55 percent of the iris width. In the right eye, draw a constricted pupil at 15 percent of the iris width. Add three iris rings in the left eye and two in the right eye.

Answer: Eye ovals: 7 cm by 4 cm. Iris width: 4.9 cm (70 percent of 7 cm). Left pupil: 2.695 cm (55 percent of 4.9 cm). Right pupil: 0.735 cm (15 percent of 4.9 cm). Left eye: three rings. Right eye: two rings.

Reason: The iris width is 0.70 times the eye width. The left pupil is 0.55 times the iris width, and the right pupil is 0.15 times the iris width. The ring counts differ as specified.

Check: Measure the pupil widths and confirm the left pupil is much larger than the right. Check that the left eye has three rings and the right eye has two, all following the iris oval shape.

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Source rubric / reflection

- [ ] Two eye ovals are equal in size and level.
- [ ] Each iris is centered and about 70 percent of the eye width.
- [ ] Pupils are centered and clearly show the chosen dilation difference.
- [ ] Two or three iris rings are visible and follow the iris oval shape.
- [ ] Ring spacing is even and concentric.
- [ ] Pupil and ring lines are clear enough to compare the two variants.
- [ ] Chosen pupil sizes are labeled or noted.
- [ ] Valid hand-drawn variation is acceptable if the structure is clear.

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