Draw Symmetrical Eyes with Mirrored Guides

Original tasks 1, 2, 3 / complete keys

Task 1

In a 12-unit-wide box with the centerline at 6 units, the left inner corner is 2 units from the centerline and the left outer corner is 6 units from it. State the right inner and outer corner distances.

Answer: Right inner corner: 2 units from the centerline. Right outer corner: 6 units from the centerline.

Reason: Mirroring preserves distance from the centerline, so each left distance is copied to the right side.

Check: Add each pair: 2 + 2 = 4 units between inner corners, and 6 + 6 = 12 units between outer corners, matching the box width.

Task 2

The left lid peak is 4 units above the baseline and 3 units from the centerline. The right lid peak is drawn 4 units above the baseline but 4 units from the centerline. Is the pair mirrored? Give the corrected right distance.

Answer: No. The corrected right distance is 3 units from the centerline.

Reason: Heights match, but the horizontal distance does not. Mirroring requires the same distance from the centerline.

Check: Compare the two horizontal distances: 3 units versus 4 units. After correction, both are 3 units.

Task 3

Each iris has radius 1.5 units and each pupil has radius 0.6 units. The left iris center is 2 units from the centerline. The right iris center is 2.5 units from the centerline. Find the mismatch and state a corrected right iris center.

Answer: The mismatch is the iris center distance: 2 units versus 2.5 units. A corrected right iris center is 2 units from the centerline.

Reason: Radii already match, so only the center position needs mirroring.

Check: Check that 2 + 2 = 4 units separate the iris centers, and confirm both radii are 1.5 units.

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Original tasks 4 / complete keys

Task 4

The upper lid covers 0.3 units of the left iris and 0.5 units of the right iris. The left lid peak is 3 units above the baseline and the right lid peak is 3 units above the baseline. What should you adjust, and what equal overlap could you use?

Answer: Adjust the right lid overlap or the right lid curve so both overlaps match. One valid choice is 0.3 units on both sides.

Reason: The lid peaks already match in height, so the mismatch is the overlap amount. The convention requires equal recorded overlap.

Check: Measure the covered iris height on each side and confirm both read the same number, such as 0.3 units.

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Source rubric / reflection

- [ ] Centerline is drawn and used as the mirror axis.
- [ ] Inner and outer corner distances match in pairs.
- [ ] Lid peak heights match above the baseline.
- [ ] Iris and pupil radii match in pairs.
- [ ] Lid overlap is recorded and applied equally.
- [ ] Valid alternative eye styles are accepted if guide measurements match.

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