Mirror Contour Face Drawing: Observe and Redraw Edges

Original tasks 1, 2, 3 / complete keys

Task 1

In a hypothetical observation box, the jaw edge has 4 unintended breaks, the nose has 0, and the eye has 2. The redraw box has jaw 2, nose 1, eye 2. Calculate each box total and state which edge group improved most.

Answer: Observation total = 4 + 0 + 2 = 6. Redraw total = 2 + 1 + 2 = 5. The jaw improved most, from 4 to 2.

Reason: Add the three counts per box. Compare each group: jaw 4 to 2 improves by 2; nose 0 to 1 worsens by 1; eye 2 to 2 stays the same. The largest improvement is the jaw.

Check: Re-add each row and confirm the differences: 4-2=2, 0-1=-1, 2-2=0.

Task 2

A student draws the nose edge in three separate strokes because the edge is hidden twice by shadow. Is this allowed under the lesson convention? Explain using the definition of a contour line.

Answer: Yes. The convention allows one stroke per visible edge segment. Three strokes are valid if two of them restart where the edge becomes visible again after being hidden.

Reason: A contour line follows the visible edge and stops only when the edge is hidden. Multiple strokes are allowed when the edge is genuinely interrupted.

Check: Count the number of hidden segments in the description: two hidden points produce three visible segments, matching three strokes.

Task 3

The observation box has jaw 1, nose 2, eye 1. The redraw box has jaw 1, nose 1, eye 3. A student claims the redraw is better overall. Test the claim with totals.

Answer: Observation total = 1 + 2 + 1 = 4. Redraw total = 1 + 1 + 3 = 5. The claim is false; the redraw has one more unintended break overall.

Reason: Totals are compared directly. The nose improved by 1 and the eye worsened by 2, giving a net worsening of 1.

Check: Subtract totals: 5 - 4 = 1, so the redraw is worse by one break.

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Original tasks 4 / complete keys

Task 4

A hypothetical box is 12 cm wide and 16 cm tall. A student draws the jaw edge 3 cm from the left side and the eye edge 9 cm from the left side. Are these measurements part of the contour checklist? Explain.

Answer: No. The contour checklist records edge continuity for jaw, nose, and eye, not positions measured against the box sides. The 3 cm and 9 cm values are page positions, not contour checks.

Reason: The box is only a page boundary. The lesson explicitly avoids proportion construction and does not measure features against box sides.

Check: Confirm that the checklist targets are jaw, nose, and eye edge groups, and that no rubric item mentions side distances.

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Source rubric / reflection

- [ ] Observation box contains jaw, nose, and eye edge groups.
- [ ] Redraw box contains the same three edge groups without tracing.
- [ ] Each edge group is marked with an unintended break count.
- [ ] Labels are written between baseline and midline and do not overlap drawings.
- [ ] Comparison states which edge groups improved, worsened, or stayed the same.
- [ ] Valid alternatives such as two-stroke edges are accepted if continuity is judged.

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