Facial Outline Drawing: Jaw, Cheek, and Brow Contour Practice

Original tasks 1, 2, 3 / complete keys

Task 1

A frame is 60 mm wide and 90 mm tall. Jaw corners are 12 mm in from each side at the jaw level. Calculate the brow line from the top, the jaw level from the top, and the jaw width.

Answer: Brow line: 30 mm from the top. Jaw level: 60 mm from the top. Jaw width: 36 mm.

Reason: One third of 90 is 30. Two thirds of 90 is 60. Width minus two insets is 60 minus 24, which equals 36.

Check: Measure the drawn frame and key points with a ruler and compare each value to the calculated value within 2 mm.

Task 2

A guide frame is 100 mm wide and 120 mm tall. Jaw corners are 20 mm in from each side. A freehand drawing in the same size box has a jaw width of 64 mm. Is the freehand jaw width within 4 mm of the guide jaw width?

Answer: Guide jaw width is 60 mm. The freehand width is 64 mm, a difference of 4 mm, so it is within the 4 mm limit.

Reason: 100 minus 20 minus 20 equals 60. The difference between 64 and 60 is 4.

Check: Measure both jaw widths on the paper and subtract the smaller from the larger.

Task 3

A frame is 70 mm wide and 105 mm tall. The chin point is drawn 3 mm to the right of bottom center. The brow line is drawn at 36 mm from the top. State whether each is within a 2 mm check, and give the correct brow value.

Answer: The chin point is not within 2 mm because 3 mm is greater than 2 mm. The brow line is within 2 mm because the correct value is 35 mm and the drawn value is 36 mm, a difference of 1 mm, which is within 2 mm, so the brow line passes. Correct brow value: 35 mm.

Reason: One third of 105 is 35. The chin offset is 3 mm, which exceeds the 2 mm check.

Check: Measure the chin offset from the center line and measure the brow line from the top edge.

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Original tasks 4 / complete keys

Task 4

A frame is 90 mm wide and 120 mm tall. Jaw corners are 18 mm in from each side. A freehand contour has a jaw width of 50 mm and a chin point 1 mm left of center. Calculate the guide jaw width and state whether the freehand jaw width is within 4 mm.

Answer: Guide jaw width is 54 mm. The freehand width is 50 mm, a difference of 4 mm, so it is within the 4 mm limit. The chin point is within 2 mm.

Reason: 90 minus 18 minus 18 equals 54. The difference between 54 and 50 is 4. The chin offset is 1 mm, which is less than 2 mm.

Check: Measure the guide jaw width, the freehand jaw width, and the chin offset from center, then compare each to its stated limit.

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Source rubric / reflection

- [ ] Frame is drawn lightly and measured in millimetres.
- [ ] Brow line is placed at the upper third within 2 mm.
- [ ] Jaw level is placed at the lower third within 2 mm.
- [ ] Both cheek guide lines meet the brow outer points and jaw corners within 2 mm.
- [ ] Both jaw guide lines meet the jaw corners and chin point within 2 mm.
- [ ] Freehand contour keeps the same key-point relationships as the guide.
- [ ] At least three freehand repeats are completed, each changing one stated variable.
- [ ] Valid alternative face shapes are accepted when the measured relationships hold.

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