Draw a Flat Object: Contour and Surface-Detail Practice

Original tasks 1, 2, 3 / complete keys

Task 1

A flat rectangular tile is 10 cm wide and 5 cm tall. Draw its contour inside a bounding rectangle of 10 cm by 5 cm. State the simplified width-to-height ratio.

Answer: The simplified ratio is 2:1. The contour is a closed rectangle inside the 10 cm by 5 cm bounding rectangle.

Reason: 10:5 simplifies by dividing both numbers by 5, giving 2:1. The contour follows the bounding rectangle's proportions.

Check: Divide both measurements by their greatest common factor and confirm the contour's width is twice its height.

Task 2

A flat card is 8 cm wide and 6 cm tall. A seam runs vertically 2 cm from the left edge. Draw the contour and seam, and state the seam's fractional position across the width.

Answer: The seam is at one-quarter of the width from the left edge. The contour is a closed rectangle with a 4:3 ratio, and the seam is a thinner vertical line inside it.

Reason: 8:6 simplifies to 4:3. The seam position is 2 ÷ 8 = one-quarter of the width.

Check: Confirm 2 ÷ 8 = 0.25 and that the seam stays inside the contour without crossing it.

Task 3

A flat leaf shape has a bounding rectangle 9 cm wide and 6 cm tall. A vein starts at the centre of the bottom edge and ends at the centre of the top edge. Draw the contour and vein, and state the simplified ratio.

Answer: The simplified ratio is 3:2. The vein is a vertical line through the centre, drawn thinner than the contour and staying inside the boundary.

Reason: 9:6 simplifies to 3:2. The centre line is at half the width, so the vein runs from the midpoint of the bottom edge to the midpoint of the top edge.

Check: Verify 9 ÷ 3 = 3 and 6 ÷ 3 = 2, and check that the vein is equidistant from the left and right edges.

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Original tasks 4 / complete keys

Task 4

A flat folded paper shape is 12 cm wide and 4 cm tall. A fold line runs horizontally 1 cm from the top edge. Draw the contour and fold line, and state the fold's fractional position down the height.

Answer: The fold is at one-quarter of the height from the top. The contour has a 3:1 ratio, and the fold is a thinner horizontal line inside it.

Reason: 12:4 simplifies to 3:1. The fold position is 1 ÷ 4 = one-quarter of the height.

Check: Confirm 1 ÷ 4 = 0.25 and that the fold line stays inside the contour and does not cross it.

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Source rubric / reflection

- [ ] Contour is a single closed line that matches the object's simplified width-to-height ratio.
- [ ] Surface details are placed using fractional positions and stay inside the contour.
- [ ] Line-weight convention is applied consistently, with contour distinguishable from surface details.
- [ ] Construction marks are erased and the contour remains the strongest line.
- [ ] Valid alternative styles, such as equal line weights applied consistently, are accepted.

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