Contour Drawing with Selected-Color Fill: Edge and Shape Study

Original tasks 1, 2 / complete keys

Task 1

A box is 6 cm tall and 3 cm wide. Draw its outer contour and one interior line that divides the front face from the side face. Fill the front face with one flat color and the side face with another. Describe any needed diagram in words.

Answer: Outer contour is a rectangle at a 2:1 ratio with one vertical interior line near the middle. Front face and side face are each filled flat with a different color, lines visible.

Reason: The 6 cm by 3 cm measurement gives a 2:1 ratio. One interior line closes two regions so each can hold one flat color.

Check: Measure the drawn height and width; divide height by width and confirm it is about 2. Trace each region to confirm it closes. Confirm no color crosses a line.

Task 2

A leaf shape is 10 cm long and 5 cm wide. Draw its outer contour and a central vein line that reaches both ends. Fill the left half with one flat color and the right half with another. Describe the diagram in words.

Answer: Outer contour is a pointed oval at a 2:1 ratio with a central vein line from tip to tip. Left and right halves are filled flat with different colors, vein line visible.

Reason: The central vein closes two regions. The 10 cm by 5 cm measurement sets a 2:1 ratio for checking proportion.

Check: Confirm the length-to-width ratio is about 2. Check that the vein reaches both ends and both halves close. Confirm colors are flat and inside the lines.

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Original tasks 3, 4 / complete keys

Task 3

A cup with a handle is 7 cm tall and 3.5 cm wide at the body. Draw the outer silhouette including the handle opening, then fill the body with one flat color and the handle opening with another. Describe the diagram in words.

Answer: Outer silhouette is a tall rounded shape at a 2:1 ratio with a closed handle opening on one side. Body and handle opening are filled flat with different colors, lines visible.

Reason: The handle opening is an enclosed region that must close before coloring. The 7 cm by 3.5 cm measurement gives a 2:1 ratio.

Check: Measure height and width and confirm a 2:1 ratio. Trace the handle opening to confirm it closes. Check that no color crosses the contour.

Task 4

A simple house shape is 8 cm tall and 8 cm wide. Draw the outer contour, add a roof line that closes a triangle, and add one door rectangle that closes. Fill the roof, wall, and door with three flat colors. Describe the diagram in words.

Answer: Outer contour is a square at a 1:1 ratio with a triangle roof line and a closed door rectangle. Roof, wall, and door are each filled with one flat color, lines visible.

Reason: The roof line and door rectangle create three closed regions. The 8 cm by 8 cm measurement gives a 1:1 ratio for proportion checking.

Check: Confirm the height-to-width ratio is about 1. Trace each of the three regions to confirm closure. Check that each region has one flat color and the lines remain visible.

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Source rubric / reflection

- [ ] Contour line is continuous and closes every region.
- [ ] Height-to-width ratio matches the measured ratio within a small tolerance.
- [ ] Each enclosed region is filled with one flat chosen color.
- [ ] No shading, blending, or color over the contour line.
- [ ] Valid alternatives are accepted: color assignment may change and contours may be simplified if regions close and edges stay clear.

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