# Rose and Heart Composition: Layering Petals Around a Heart Form

Original tasks 1, 2, 3 / complete keys

Task 1

A heart of 9 cm height sits in a 12 cm by 16 cm frame, where 16 cm is the frame height. The heart is centered vertically with equal top and bottom margins, and the working height equals the heart height plus 3 cm total. State the top and bottom margin.

Answer: The top and bottom margin is 2 cm each.

Reason: Working height is heart height plus 3 cm: 9 + 3 = 12 cm. Frame height is 16 cm, so total margin is 16 - 12 = 4 cm. Equal top and bottom margins give 4 / 2 = 2 cm each. Check: 2 + 12 + 2 = 16 cm.

Check: Subtract the working height from the frame height, divide by two, then add margin plus working height plus margin and confirm it equals the frame height.

Task 2

You have petal groups numbered 1 back, 2 left, 3 right, 4 front. At a crossing between group 2 and group 4, which contour is drawn on top, and what should the crossing look like?

Answer: Group 4 is on top; its contour crosses group 2 cleanly with no gap.

Reason: Higher numbers are later and therefore front. Group 4 is front of group 2, so its line continues unbroken across the crossing.

Check: Confirm the higher number is on top and that the front line has no break at the intersection.

Task 3

A composition's petals extend 4 cm to the right of the heart center and 1 cm to the left. The frame has equal margins. Describe one adjustment to improve balance without changing petal shapes.

Answer: Shift the whole heart-and-petal unit about 1.5 cm to the left within the frame.

Reason: The right extension exceeds the left by 3 cm. Shifting the unit left by half that difference, about 1.5 cm, equalizes the outer margins.

Check: Measure distance from the farthest petal on each side to the frame edge; they should be approximately equal after shifting.

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Original tasks 4 / complete keys

Task 4

During final drawing, a front petal contour stops 2 mm short of a back petal contour at an overlap. State the fix and the check.

Answer: Extend the front contour to cross the back contour cleanly, then check the crossing has no gap.

Reason: A gap makes the overlap ambiguous. The front contour must continue across the back contour to show layering.

Check: Inspect each overlap point; the front line should cross the back line without a visible break.

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Source rubric / reflection

- [ ] Heart reads as a heart where visible, with symmetric arcs checked at three heights.
- [ ] Petals wrap the heart form rather than sitting beside it.
- [ ] Overlap order is numbered and applied consistently at every crossing.
- [ ] Front contours cross back contours cleanly without gaps.
- [ ] Composition is balanced within the frame margins.
- [ ] Construction lines are light and erased only after final contours.
- [ ] Valid alternative petal shapes and widths are accepted if overlap order and readability hold.

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