Draw a Bird Nest: Twig Weave, Egg Placement, and Depth Shading

Original tasks 1, 2, 3 / complete keys

Task 1

A nest drawing has a rim oval 10 cm wide and 6 cm tall. The inner oval is 8 cm wide and 4 cm tall, offset 0.5 cm downward. What is the rim thickness on each side in this hypothetical example?

Answer: 1 cm on each side.

Reason: The rim width difference is 10 minus 8 equals 2 cm total. Divided equally on two sides, each side is 1 cm. The vertical offset does not change the side thickness.

Check: Subtract inner width from rim width, divide by two, and confirm the result is positive and consistent with the drawing.

Task 2

You draw 9 long twigs, 6 medium twigs, and 4 short filler twigs. If each medium twig crosses two long twigs and each short twig crosses one medium twig, how many crossings are described in this hypothetical example?

Answer: 16 crossings.

Reason: Medium twigs create 6 times 2 equals 12 crossings. Short twigs create 4 times 1 equals 4 crossings. Total is 12 plus 4 equals 16 crossings.

Check: Multiply counts by crossings per twig, add the two products, and verify the arithmetic: 6 times 2 is 12; 4 times 1 is 4; 12 plus 4 is 16.

Task 3

An inner oval is 9 cm wide and 5 cm tall. You place three egg ovals each 2 cm wide and 3 cm tall in a row with 0.5 cm gaps between them. Do the eggs fit within the inner oval width in this hypothetical example?

Answer: Yes, they fit with 2 cm total spare width.

Reason: Three eggs at 2 cm each equal 6 cm. Two gaps at 0.5 cm each equal 1 cm. Total used width is 7 cm. The inner oval is 9 cm wide, so 2 cm remains.

Check: Add egg widths and gap widths, subtract from inner oval width, and confirm the result is zero or positive.

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Original tasks 4 / complete keys

Task 4

A drawing uses three values: rim light, outer bowl medium, inner wall dark. A classmate shades the outer bowl darker than the inner wall. According to the lesson's value order, what is the mistake and how should it be fixed?

Answer: The mistake is reversing the value order. Fix by lightening the outer bowl and darkening the inner wall so the rim is lightest, the outer bowl is medium, and the inner wall is darkest.

Reason: Depth in this method depends on the inner wall being darker than the outer bowl. Reversing the order makes the nest look flat or inside-out. The fix restores the three-value order.

Check: Compare the three areas side by side and confirm the rim is lightest, the outer bowl is medium, and the inner wall is darkest.

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Source rubric / reflection

- [ ] Nest reads as a bowl with visible depth, not a flat disc.
- [ ] Twig weave shows at least three layers with visible crossings and some open gaps.
- [ ] Twig strokes follow the defined taper convention: thin start, slight midpoint thickening, tapered end.
- [ ] Eggs sit inside the inner oval with a small gap from the rim and narrow ends toward center.
- [ ] Interior wall is darker than the outer bowl, and the rim is the lightest area.
- [ ] Valid stylistic alternatives are accepted if the bowl structure, weave visibility, egg placement, and value order remain clear.

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