Draw Godzilla-Style Scale Texture in Layered Rows

Original tasks 1, 2, 3 / complete keys

Task 1

A drawing area is 39 mm wide. Use a scale width of 8 mm and a gap of 5 mm. How many scales fit in one row, and what is the staggered offset?

Answer: Three scales fit, and the offset is 6.5 mm.

Reason: The repeat unit is 8 + 5 = 13 mm. 39 ÷ 13 = 3, so three scales fit exactly. The offset is half of 13 mm, which is 6.5 mm.

Check: Multiply 3 by 13 to get 39 mm. Measure one gap as 5 mm and the offset as 6.5 mm.

Task 2

A row height is 12 mm and a scale is drawn 9 mm tall from baseline to top. Does the scale stay below the midline? Explain.

Answer: Yes, the scale stays below the midline because 9 mm is less than 12 mm.

Reason: The midline is 12 mm above the baseline. A 9 mm tall scale ends 3 mm below the midline, so it does not cross it.

Check: Subtract 9 from 12 to get 3 mm of clearance. Measure the scale height and the row height on the paper.

Task 3

You want five scales in a 70 mm wide row with a gap of 4 mm. What scale width should you use?

Answer: Use a scale width of 10 mm.

Reason: Five repeat units must equal 70 mm, so one unit is 70 ÷ 5 = 14 mm. Subtract the 4 mm gap to get a scale width of 10 mm.

Check: Add 10 + 4 = 14 mm per unit, then multiply by 5 to confirm 70 mm.

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Original tasks 4 / complete keys

Task 4

A staggered row starts 7 mm from the left edge. If the repeat unit is 14 mm, where does the next scale in that row start?

Answer: The next scale starts 21 mm from the left edge.

Reason: Add one repeat unit to the starting position: 7 + 14 = 21 mm.

Check: Subtract 7 from 21 to confirm one repeat unit of 14 mm. Measure both start positions on the paper.

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Source rubric / reflection

- [ ] Rows are clearly layered with a consistent overlap direction from bottom to top.
- [ ] Each scale's top edge stays near its row midline, using the baseline-to-midline convention.
- [ ] Staggered rows are offset by about half a scale width.
- [ ] Spacing is consistent and can be checked with a repeat unit of scale width plus gap.
- [ ] Interior ridge lines are limited and stay inside the scale outline.
- [ ] Valid stylistic alternatives such as rounder or sharper scales are accepted if row structure remains clear.

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