Layered Scale Pattern Drawing: Step Practice with Spacing and Row Alignment

Original task 1 / independent drawing and calculation

Task 1

In a 4 cm by 2 cm frame, draw one row of scales with W = 1 cm and H = 0.5 cm. How many scales fit edge to edge, and what is the row-alignment check for a second row offset by W/2?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A drawing has three rows with W = 2 cm and H = 1 cm. Row one starts at 0 cm, row two at 1 cm, and row three at 0 cm. Is the offset pattern consistent? Explain and suggest a fix if needed.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

You want five scales per row in a frame 10 cm wide. What scale width W should you choose if scales touch edge to edge? If you leave a 0.5 cm gap between scales, how many scales fit? Use simple arithmetic.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Describe how to use a tracing box to practice one scale shape, then explain how to transfer that shape into a two-row layered pattern with W = 3 cm and H = 1.5 cm. Include a row-alignment check.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.