Draw Overlapping Dragon Scales with Consistent Shading

Original task 1 / independent drawing and calculation

Task 1

Draw a 3-row by 3-column patch of scales with upward overlap (lower rows overlap upper rows). Add shading under each overlapping edge. Describe your result.

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 learner draws 4 scales in row 1 and 4 scales in row 2 directly below without offset. The bottom edges of row 1 scales cover the top edges of row 2 scales. Is the overlap consistent? Explain.

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 have a grid with cells 3 cm wide and 2 cm tall. You want scales about half the cell width. What scale width and shading band width would you use? Use hypothetical values and state units.

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

In a 4-row patch with downward overlap, which rows should have shading under their bottom edges? Assume every scale except those in the bottom row is overlapped by a scale above.

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.