How to Draw Snake Scales: Overlapping Rows and Shading

Original tasks 1, 2 / independent work

Task 1

A panel is 48 mm wide. Using a 6 mm scale unit, how many scales fit in one row, and how many full-width equivalents fit in a staggered row offset by 3 mm?

Task 2

Three rows use a 5 mm scale height with 1.25 mm overlap. What is the vertical distance from the top of row one to the top of row three?

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Original tasks 3, 4 / independent work

Task 3

A student shades the upper-left edge of every scale but states light comes from the upper left. What is wrong, and what is the fix?

Task 4

A row of 9 scales is followed by a row of 9 scales with no offset. What visual problem appears, and how many scales should the offset row show if half-scales are allowed?