How to Draw Chinese Dragon Scales with Overlapping Rows

Original tasks 1, 2 / independent work

Task 1

A panel is 10 cm wide. You choose a scale width of 2.5 cm. How many full scales fit in row 1, and where does row 2 start?

Task 2

You draw row 1 with scales 3 cm wide and 2 cm tall. You want row 2 to overlap the row below by one-third of the lower scale height. How much vertical overlap should row 2 have?

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Original tasks 3, 4 / independent work

Task 3

A student draws row 1 with five scales across a 15 cm panel. They then draw row 2 starting at the left edge instead of offsetting it. What problem will this cause, and how can they fix it?

Task 4

You have drawn three rows. A vertical line through the panel crosses row 1 at a scale center, row 2 at a junction between two scales, and row 3 at a scale center. Is the offset consistent? Explain.