Draw Overlapping Fish-Scale Rows with Shading

Original tasks 1, 2 / independent work

Task 1

A row is 8 cm wide with 5 equal scales. The scale height is 4 cm and the next row overlaps by one-quarter of the height. Find the scale width, the row spacing, and the sideways offset.

Task 2

You draw three rows with 6 scales each. Each scale overlaps the row below by 1 cm, and the scale height is 3 cm. How far below the first baseline is the third baseline?

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Original tasks 3, 4 / independent work

Task 3

A scale is 2 cm wide and 3 cm tall. The light comes from the upper right. Describe where the light area, mid area, and dark contact band go on each scale, and state one check.

Task 4

A practice plate has 4 rows. Row 1 has 7 scales, and each row below has one fewer scale. Scale width is 1.5 cm. What is the total number of scales, and how wide is the widest row?