Fish Scales vs Snake Scales: Side-by-Side Row Drawing

Ordinary topic reference / separately checked pixels

Selected Pattern A / overlap versus selected Pattern B / edge meeting; real snake scales can overlap

A / selected overlap



first row 6 cm

B / selected edge meeting



first row 8 cm

Print 1:2: ruler lengths are half the labelled source dimensions. A first-row span is N x W - (N-1) x overlap; B is N x W. Pattern names are worksheet shorthand. Real fish/snake scale morphology varies, and actual snake scales can overlap. Chosen row height is an illustration parameter.

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Original worked example / unchanged complete key

Prompt: Draw one row of 4 fish scales and one row of 4 snake scales on the same baseline and midline. Use a scale width of 2 cm as a hypothetical example. For fish scales, overlap each scale by one third of its width. For snake scales, make edges meet. Then add a second row to each with a half-width offset and describe the difference.

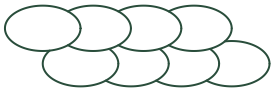
Answer: Fish-scale row: 4 scales, each 2 cm wide, overlapping by one third of a scale width (about 0.67 cm). There are 3 overlaps, so total overlap is 3 × 2 ÷ 3 = 2 cm (each overlap is about 0.67 cm), which equals one full scale width. Visible width is therefore about 4 scale widths minus 1 scale width of total overlap = 3 scale widths, or 6 cm. Second row starts 1 cm to the right and overlaps the first row. Snake-scale row: 4 scales, each 2 cm wide, meeting edge to edge. Visible width is 4 full widths, or 8 cm. Second row starts 1 cm to the right and touches the first row's bottom edge. Difference: fish scales overlap and hide part of the row above; snake scales meet and leave the row above fully visible.

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Worked diagram / reference

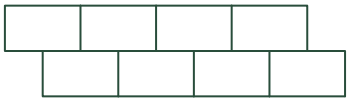
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first row 6 cm

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