Draw Mermaid Scale Rows on a Face: Fan Bands from Cheek to Temple

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: A learner draws a face oval 12 cm tall and 8 cm wide, places the fan origin one-third up and one-third in from the edge, and plans four guide rays. The temple arc of one band is 6 cm and the jaw arc is 4 cm. The learner draws eight scales in the temple band and wants to know how many scales to plan for the jaw band if each row narrows by about 20 percent.

Answer: Plan about nine to ten scales for the jaw band. Eight temple scales over a 6 cm arc give about 0.75 cm of arc per scale. Narrowing by 20 percent gives about 0.6 cm per scale at the jaw. Over a 4 cm jaw arc, 4 cm divided by 0.6 cm gives about 6.7 scales without overlap; with one-third overlap the count rises to about 6.7 divided by two-thirds, which is about 10, so plan nine to ten scales. Check by counting scales and comparing row widths; adjust by removing one scale if the band looks crowded.