Draw Feathers with Layered Vane and Pencil-Stroke Construction

Original task 1 / independent drawing and calculation

Task 1

On a blank feather outline 10 cm long, mark a tapered shaft from 2 mm at the base to 1 mm at the tip. Draw three overlapping vane bands on the left side only, each 2 cm long along the shaft, with a 0.5 cm overlap between consecutive bands. Describe the stroke direction you use.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A feather has four vane bands on the right side, each 3 cm long along the shaft, with 1 cm overlaps. The shaft is 14 cm long. Do the four bands fit within the shaft length if the first band starts at the base? Show the arithmetic.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

You draw a feather with a 1.5 mm shaft at the base and a 0.5 mm shaft at the tip. You then add five pencil strokes per band, with four bands. If each stroke is 1 cm long, what total stroke length do you draw? State the unit.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

A practice feather is 8 cm long. You plan three bands per side, each 2 cm long along the shaft, with 0.5 cm overlaps. Calculate the covered length per side and state whether the bands fit within the 8 cm shaft.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.