Draw Shell Forms: Spiral, Ribbed, and Smooth Comparison Plate

Original task 1 / independent drawing and calculation

Task 1

A box is 10 cm wide and 5 cm high. Find the width-to-height ratio and plan four rib gaps that average 0.6 cm.

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

Plan a spiral with three turns in a 7 cm by 7 cm box using hypothetical gaps of 0.3, 0.6, and 0.9 cm. State the total radial span and whether the gaps increase.

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

A ribbed form has five ribs spanning 4 cm. Find the average gap and describe how to check two measured gaps.

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

Describe a smooth shell form in a 6 cm by 4 cm box using only an outer contour and one midline. State the ratio and one check.

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.

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Task 1 / practice

Shell forms / all labelled hypothetical cm dimensions print 1:2 / not paper-edge margins

Independent drawing area / record your own construction and checks.

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Task 2 / practice

Shell forms / all labelled hypothetical cm dimensions print 1:2 / not paper-edge margins

Independent drawing area / record your own construction and checks.

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Task 3 / practice

Shell forms / all labelled hypothetical cm dimensions print 1:2 / not paper-edge margins

Independent drawing area / record your own construction and checks.

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Task 4 / practice

Shell forms / all labelled hypothetical cm dimensions print 1:2 / not paper-edge margins

Independent drawing area / record your own construction and checks.