Mortar and Pestle Drawing: Bowl Form, Rim Ellipse, and Interior Shadow

Original tasks 1, 2 / independent work

Task 1

A bowl has a rim ellipse 12 cm wide and 5 cm tall. The bowl height is 8 cm. State the ratio of rim width to rim height and the ratio of bowl height to rim height.

Task 2

A pestle is 9 cm long. The bowl height is 6 cm. If the pestle is placed with 2 cm inside the bowl, how much of the pestle rises above the rim?

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Original tasks 3, 4 / independent work

Task 3

You shade the interior in three passes. Pass one covers the whole cavity, pass two covers the back half, and pass three covers the back quarter. Describe which area receives the darkest value and why.

Task 4

A rim highlight is planned as a band 0.5 cm wide along a front rim curve of 10 cm. If you divide the band into five equal segments, what is each segment length?