Cross-Contour Shoe Drawing: Surface Lines Practice

Original tasks 1, 2 / independent work

Task 1

A shoe side view is 15 cm long. You draw six cross-contour lines, creating five gaps. The gaps are 2.8 cm, 3.0 cm, 3.2 cm, 3.0 cm, and 3.0 cm. Calculate the average gap and state whether all gaps are within a hypothetical tolerance of plus or minus 0.4 cm.

Task 2

In a tracing exercise, four gaps near the heel measure 1.5 cm, 1.8 cm, 2.1 cm, and 2.4 cm. The average is 1.95 cm. Using a hypothetical tolerance of plus or minus 0.3 cm, identify which gaps are outside the tolerance and suggest a correction.

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Original tasks 3, 4 / independent work

Task 3

A blank-frame drawing has eight cross-contour lines across a 20 cm shoe side, creating seven gaps. The total measured distance across the lines is 18.9 cm. Calculate the average gap. If one gap measures 3.5 cm and the hypothetical tolerance is plus or minus 0.5 cm, is that gap acceptable?

Task 4

You draw a shoe with cross-contour lines starting at the sole edge. Three gaps near the toe are 1.2 cm, 1.4 cm, and 1.6 cm. The average is 1.4 cm. A classmate starts lines at the upper edge and gets gaps of 1.3 cm, 1.5 cm, and 1.5 cm, average 1.43 cm. Using a hypothetical tolerance of plus or minus 0.2 cm, are both sets consistent? Explain why both are valid alternatives.