Contour Drawing of Scissors: Slow vs Quick Line Passes

Original tasks 1, 2 / independent work

Task 1

A scissors reference measures 15 cm. The slow box drawing measures 14.5 cm and the quick box drawing measures 13 cm. Using a hypothetical 1 cm tolerance, state which drawing is within tolerance and by how much each differs.

Task 2

In a slow pass, a handle loop has a baseline at 4 cm from the bottom of the box and a midline at 7 cm from the bottom. In the quick pass, the same loop has a baseline at 4 cm and a midline at 6 cm. Calculate each x-height and the difference.

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Original tasks 3, 4 / independent work

Task 3

A quick pass drawing has a blade angle line that starts at the pivot and ends 8 cm to the right and 6 cm up from the pivot. A slow pass drawing has the same start but ends 7 cm to the right and 5 cm up. Which pass has the longer blade line, and by how much? Use whole-centimeter arithmetic and state the unit.

Task 4

A student writes two comparison notes: 'Slow pass: blade edge has 4 direction changes; quick pass: blade edge has 2 direction changes.' The reference scissors blade is straight. Is the note a valid line-quality comparison, and what should the student check next?