Contour Drawing of Scissors: Slow vs Quick Line Passes

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

Contour Drawing of Scissors: Slow vs Quick Line Passes

Worked example / complete source key

A student measures the scissors as 18 cm long. The slow box drawing measures 17 cm; the quick box drawing measures 16 cm. The slow pass note says 'handle loop x-height 3 cm'; the quick pass note says 'handle loop x-height 2.5 cm.' Are the drawings within a hypothetical 1 cm tolerance for the longest dimension, and what does the x-height difference suggest?

Answer: The slow drawing differs from the reference by 1 cm (18 - 17 = 1), so it is within the hypothetical tolerance. The quick drawing differs by 2 cm (18 - 16 = 2), so it is outside that tolerance. The x-height difference is 0.5 cm (3 - 2.5 = 0.5), suggesting the quick pass simplified the handle loop. To correct the quick pass, re-measure the overall handle-tip-to-blade-tip span in the quick box and adjust the drawn overall span (for example, extend the blade tip or handle tip along the measured axis) so the longest dimension comes within 1 cm of 18 cm.