Cello Drawing: Body Outline, F-Holes, and Bow Geometry

Original tasks 1, 2 / independent work

Task 1

A cello body is 20 cm long. Using the lesson convention, calculate the upper-eye and lower-eye levels from the top, and the vertical span of each f-hole.

Task 2

A bow is drawn at 30 degrees to vertical with length 18 cm. Calculate its vertical rise and horizontal run, using sine and cosine rounded to one decimal place.

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Original tasks 3, 4 / independent work

Task 3

A drawing has body length 16 cm and maximum lower-bout half-width 5 cm. Using the lesson convention, calculate the horizontal distance from the midline to each f-hole centre.

Task 4

A student's body is 28 cm long. They mark left half-widths of 4, 3, 2, 3, 5, 6, 5, and 4 cm at the eight levels. State the right half-widths needed for symmetry and the total width at the widest level.