Choosing Graph-Paper Grid Size for Calligraphy Stroke Practice

Original tasks 1, 2 / independent work

Task 1

A pen stroke is 1.5 mm wide and the intended x-height is 9 mm. Calculate how many squares the x-height spans on a 5 mm grid and on a 1 cm grid.

Task 2

A 1/4-inch grid has squares of 6.35 mm. A letter has an x-height of 19.05 mm. How many squares does it span, and what is that in inches?

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Original tasks 3, 4 / independent work

Task 3

A pen stroke is 2.5 mm wide. On a 5 mm grid, what fraction of a square does the stroke cover? On a 1 cm grid? Show both as simple fractions.

Task 4

You want an x-height of 15 mm. Compare a 5 mm grid and a 1 cm grid by square span. Which grid gives a whole-number span, and what is it?