Draw a Paper Wasp Nest: Hexagonal Comb Layout

Original tasks 1, 2 / independent work

Task 1

Plan a flat-top comb with s = 6 mm, 6 cells in a row, and 5 rows. Calculate the horizontal span between first and last centers in a row and the vertical span between first and last row centers. Describe the center layout in words.

Task 2

A drawing has 8 cells in a row with s = 5 mm. The measured distance between the first and last centers is 52 mm. Is this consistent with the planned spacing? Show the arithmetic.

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Original tasks 3, 4 / independent work

Task 3

You want a comb with 4 rows and vertical span between first and last row centers of about 26 mm. Using s = 10 mm, does 4 rows fit? Show the arithmetic and state whether you would adjust the row count.

Task 4

After tiling a rectangular block, you erase two outer cells to round the comb boundary. Describe how to redraw the broken edges and state one vertex check for the new boundary.