Draw the Eiffel Tower with Grid Squares and Proportion Guides

Original tasks 1, 2 / independent work

Task 1

Using H = 12 squares, tier tops at 0.30H, 0.60H, and 0.85H, tier widths 0.30H, 0.18H, and 0.08H, and W = 0.45H, compute all values in squares, rounding to the nearest half square. Describe the splay offset.

Task 2

A drawing uses H = 24 squares and W = 10 squares. The first-tier width is 7 squares. Compute the splay offset per side and state whether the base is wider than the first tier.

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Original tasks 3, 4 / independent work

Task 3

On a grid with H = 20 squares, a student places tier guides at 5, 11, and 16 squares above ground. Compare these to the target fractions 0.30H, 0.60H, and 0.85H and state the differences in squares.

Task 4

A student draws a tower with H = 18 squares, first-tier width 5 squares, and base width 5 squares. Identify the proportion error and give a corrected base width using W = 0.45H rounded to the nearest half square.