Boat on Grid Paper: Cell-by-Cell Drawing Guide

Original tasks 1, 2 / independent work

Task 1

A reference boat has hull rows of 5, 7, and 3 filled cells from bottom to top, and sail rows of 1, 3 above the hull. What is the total filled cell count?

Task 2

On an 8-column grid, a student uses column 4 as the mast. Is the boat centered? Explain using cell counts.

Boat on Grid Paper: Cell-by-Cell Drawing Guide

Original tasks 3, 4 / independent work

Task 3

A sail has row counts 1, 3, 5, 7 from top to bottom. The hull's widest row has 6 cells. Is the sail base wider than the hull?

Task 4

A drawing has 12 hull cells, 6 sail cells, and 4 diagonal-only cells. A checker counts 20 total cells. Is the checker correct?