Draw a Matcha Whisk: Bamboo Tines and Handle Construction

Original tasks 1, 2 / independent work

Task 1

A student draws a whisk with a total height of 15 cm and a handle height of 5 cm. What is the tine height, and is the handle-to-tine ratio within the accepted range?

Task 2

A drawing uses 90 tines split into three equal groups. How many tines are in each group? If the total height is 18 cm and the handle is 6 cm, what is the tine height?

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Original tasks 3, 4 / independent work

Task 3

A whisk drawing has a handle-to-tine ratio of 1:3 and a tine height of 9 cm. What is the handle height and the total height?

Task 4

A student draws 100 tines with 40 central, 30 left, and 30 right. The total height is 20 cm and the handle is 5 cm. State the tine height, the handle-to-tine ratio, and whether the tine count and grouping are acceptable.