Layered Cake Drawing: Tier Heights and Frosting Bands

Original tasks 1, 2 / independent work

Task 1

A three-tier cake uses a 4:2:1 ratio with a unit of 2 cm. State the height of each tier and the total cake height.

Task 2

A frosting band is drawn at 5 cm from the baseline on a tier that is 10 cm tall. A second band is placed midway between the first band and the top of the tier. At what height is the second band?

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Original tasks 3, 4 / independent work

Task 3

A bottom tier is 12 cm wide. Each higher tier is 2 cm narrower. State the widths of the middle and top tiers for a three-tier cake.

Task 4

You plan five frosting bands on a cake that is 15 cm tall. Bands are at 3 cm, 6 cm, 9 cm, 12 cm, and 15 cm. Are the bands evenly spaced? If not, state a corrected set of five evenly spaced heights from 3 cm to 15 cm inclusive.