Draw a Mountain with Trees: Scale and Placement Cues

Original tasks 1, 2 / independent work

Task 1

A mountain is 10 cm tall. You place two trees on the right slope with trunk bases at 3 cm and 6 cm above the baseline. Using hypothetical heights of 4 cm and 2 cm, check whether each tree's top stays below the peak.

Task 2

A foreground tree is 9 cm tall and a midground tree is 3 cm tall. What is the ratio of foreground height to midground height? Express as a simplified ratio.

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Original tasks 3, 4 / independent work

Task 3

You have a mountain 14 cm tall. You want to place four trees on the left slope with equal spacing of 2 cm between trunk bases, starting at 2 cm above the baseline. What are the four trunk base heights above the baseline?

Task 4

A tree is drawn with its trunk base on the baseline. Its trunk midline is 7 cm above the baseline, but its foliage top reaches 11 cm. According to the convention, what is the tree height?