Draw a Layered Mountain Range: Overlapping Ridges for Depth

Original tasks 1, 2 / independent work

Task 1

A drawing has three ridges. The far ridge has 5 peaks, the middle ridge has 4 peaks, and the near ridge has 3 peaks. The middle ridge overlaps the far ridge 3 times, and the near ridge overlaps the middle ridge 2 times. What is the total number of overlap points?

Task 2

On a 20 cm by 15 cm frame, you divide the height into three equal bands. What is the height of each band in centimeters?

Draw a Layered Mountain Range: Overlapping Ridges for Depth

Original tasks 3, 4 / independent work

Task 3

A student draws the far ridge with a thick line and dark shading, and the near ridge with a thin line and light shading. According to the lesson convention, what is wrong and how should it be fixed?

Task 4

You plan a mountain range with 4 far peaks, 3 middle peaks, and 2 near peaks. The middle ridge must overlap the far ridge at least twice, and the near ridge must overlap the middle ridge at least twice. If you draw exactly the minimum overlaps, how many total overlap points will the drawing have?