Scale Wing Overlay: Drawing Overlapping Plate Segments

Original tasks 1, 2 / independent work

Task 1

A drawn wing is 12 cm long at a scale of 1 cm to 8 cm imagined. What is the imagined length?

Task 2

A root row has 5 plates and a middle row has 6 plates. Each plate overlaps by 0.5 cm on paper. What is the total overlap depth across the root row if every plate except the last overlaps once?

Scale Wing Overlay: Drawing Overlapping Plate Segments

Original tasks 3, 4 / independent work

Task 3

A wing overlay uses a 1 cm to 10 cm scale. The drawn width is 7 cm. A second drawing uses a 1 cm to 5 cm scale and a drawn width of 14 cm. Which imagined width is larger?

Task 4

You plan three rows with 4, 5, and 3 plates. You label every plate in the middle row and two plates in the root row. How many labeled segments are there, and how many unlabeled plates remain?