Scale Wing Overlay: Drawing Overlapping Plate Segments

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

Scale Wing Overlay: Drawing Overlapping Plate Segments

Worked example / complete source key

A wing overlay is planned at 1 cm on paper equals 10 cm imagined. The drawn wing is 15 cm long and 9 cm wide. The root row has 4 plates, the middle row has 5, and the tip row has 3. Each plate overlaps the one behind it by 1 cm on paper. Check the imagined dimensions and the total plate count.

Answer: Imagined length is 15 cm times 10 equals 150 cm. Imagined width is 9 cm times 10 equals 90 cm. Total plates are 4 plus 5 plus 3 equals 12. The overlap depth is 1 cm on paper, which equals 10 cm imagined. All values use the same scale and unit system.