Black and White Negative Space: Stacked Chairs Drawing Study

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.

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Worked example / complete source key

A hypothetical stack has a seat height of 45 cm, a seat depth of 40 cm, and a vertical gap of 12 cm between stacked seats. In a drawing, the seat height is represented as 9 cm. Using the same scale, what length should represent the seat depth and the vertical gap?

Answer: Scale ratio: 45 cm real to 9 cm drawn, so 1 cm drawn equals 5 cm real. Seat depth: 40 cm real divided by 5 equals 8 cm drawn. Vertical gap: 12 cm real divided by 5 equals 2.4 cm drawn. Check: 9 times 5 equals 45; 8 times 5 equals 40; 2.4 times 5 equals 12. All units are centimeters and the ratio is consistent.