Draw a Cage: Bar Spacing, Curved Top, and Depth

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.

Draw a Cage: Bar Spacing, Curved Top, and Depth

Worked example / complete source key

A cage front has five bars and four gaps. The span from first to last bar is 48 mm. The rise is 12 mm and the depth offset is 18 mm. State the spacing unit and describe the construction checks.

Answer: Spacing unit = 48 mm divided by 4 gaps = 12 mm per gap. Mark four equal gaps of 12 mm. Draw the curved top through the left top, a rise point 12 mm above the midpoint, and the right top. Draw depth lines of 18 mm from each front corner in one direction, then connect the back corners. Check: every gap measures 12 mm, the arc is smooth and symmetric, and every depth line measures 18 mm.