Two-Point Perspective C-Clamp Drawing: Two Viewpoints

Original task 1 / independent drawing and calculation

Task 1

In a two-point perspective setup with a horizon line and left and right vanishing points, draw only the back bar of a C-clamp as a vertical box. The bar is 8 cm tall and 3 cm deep along the receding direction. Its top and bottom edges recede to the right vanishing point. Describe where the left and right vertical edges go and how you check the box.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Draw a side-angled view of a C-clamp in two-point perspective. The clamp opening faces right. The screw points horizontally into the opening and is 6 cm long on the page. The T-handle crosses the screw at its outer end. Explain how you keep the screw and handle aligned.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Two-Point Perspective C-Clamp Drawing: Two Viewpoints

Original task 3 / independent drawing and calculation

Task 3

A student draws a C-clamp in two-point perspective but the frame thickness looks uneven: the back bar is 2 cm thick on the page and the front jaw is 4 cm thick. The horizon and vanishing points are correct. Describe two specific changes to fix the drawing and how to check the result.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Two-Point Perspective C-Clamp Drawing: Two Viewpoints

Original task 4 / independent drawing and calculation

Task 4

Draw the same C-clamp from two viewpoints: front-angled and side-angled. In the front-angled view the opening faces the viewer; in the side-angled view the opening faces right. List three differences between the two drawings that a checker should look for, and explain how to verify the vanishing-point alignment in each.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.