Isometric Flintlock Drawing: Lock, Stock, and Barrel as Box Volumes

Original task 1 / independent drawing and calculation

Task 1

A stock box is 120 units along X, 20 units along Y, and 40 units along Z. Draw it isometrically and list the lengths of one front edge, one depth edge, and one vertical edge.

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

A barrel box is 150 units along X and a stock box is 130 units along X. Both start at the same X origin. How many units does the barrel extend beyond the stock along X?

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 3 / independent drawing and calculation

Task 3

You draw a lock plate box with dimensions 40 along X, 12 along Y, and 25 along Z. You then draw a second box with dimensions 40 along X, 12 along Y, and 25 along Z but rotated so its long edge runs along Y. Is the second drawing isometric? Explain.

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 4 / independent drawing and calculation

Task 4

A drawing shows a box with a front edge at 45 degrees to the baseline. Is this isometric? What simple change would make it isometric?

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.