Forklift Isometric Drawing: Stacked Volumes on a 30-Degree Grid

Original task 1 / independent drawing and calculation

Task 1

Draw a counterweight box 4 units wide, 2 units deep, and 2 units high behind a chassis 6 units wide, 4 units deep, and 1 unit high. Use a unit length of 10 mm. Describe the placement and one hidden 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

Draw two mast posts 1 unit wide and 5 units tall, spaced 3 units apart, with crossbars every 1 unit. Use a unit length of 8 mm. State the total mast height and the gap between posts.

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

Draw two fork prongs 1 unit wide, 4 units long, and 0.5 unit thick projecting forward from the mast base. Use a unit length of 12 mm. State the fork length and thickness in mm.

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

Draw four wheels as ellipses: front wheels 2 units diameter, rear wheels 1.5 units diameter, with major axis 1.5 times minor axis. Use a unit length of 10 mm. State the front wheel major axis length if the minor axis equals the diameter.

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.