Chest Drawing Reference: Planks, Lid, Hinges, and Lock

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a chest front 8 units wide and 8 units high with four equal planks. State each plank height and the center point for the lock.

Answer: Each plank is 2 units high. The lock center is 4 units from either side.

Reason: Divide the height by four planks: 8 divided by 4 equals 2. Divide the width by two for center: 8 divided by 2 equals 4.

Check: Measure each plank and confirm the sum is 8 units. Measure lock center to each side and confirm both are 4 units.

Task 2

A chest front is 12 units wide. Place two hinges on the back edge, each 2 units from a corner. State the distance between the hinges and check symmetry.

Answer: The distance between hinges is 8 units. The 12-unit width is the body width, and hinge spacing is measured along the body's back edge. Each hinge is 2 units from its nearest corner, so the placement is symmetric.

Reason: Subtract twice the corner distance from the total width: 12 minus 2 minus 2 equals 8. Equal corner distances confirm symmetry.

Check: Measure from each corner to its hinge and confirm both are 2 units. Measure between hinges and confirm 8 units.

Task 3

Draw a chest with a lid rise of 1 unit over a 6-unit depth and a lid thickness of 1 unit. State the total height added above the body top edge at the back.

Answer: The lid adds 2 units above the body top edge at the back: 1 unit of rise plus 1 unit of thickness. The curve starts at the front top edge and reaches its highest point at the back top edge.

Reason: The rise is measured from the front top edge to the back top edge. The thickness sits above the curve, so the total added height is rise plus thickness.

Check: Measure the vertical distance from the body top edge to the highest point of the lid and confirm it equals 2 units.

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Original tasks 4 / complete keys

Task 4

A chest front is 9 units wide and 6 units high with three equal planks. Center a lock 2 units wide. State the left and right margins beside the lock.

Answer: Each plank is 2 units high. The lock center is at 4.5 units. With a 2-unit-wide lock, the left and right margins are each 3.5 units.

Reason: Plank height is 6 divided by 3 equals 2. Center is 9 divided by 2 equals 4.5. Each margin is half the remaining width: (9 minus 2) divided by 2 equals 3.5.

Check: Measure each plank and confirm the sum is 6 units. Measure each margin beside the lock and confirm both are 3.5 units.

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Source rubric / reflection

- [ ] Body proportions are consistent and all units match.
- [ ] Plank seams are evenly spaced and continue around the side face.
- [ ] Lid curve is smooth and meets the front top edge without crossing it.
- [ ] Hinges are symmetrically placed on the back edge.
- [ ] Lock is centered and straddles the lid-body seam.
- [ ] Hardware and seams are darker than construction lines.
- [ ] Any lettering uses baseline-to-midline x-height with consistent, legible style; alternative letter styles are acceptable.

Reflection: What did you check, what did you change, and what will you try next?