Contour Drawing: Three-Drawer Dresser Essentials

Original tasks 1, 2, 3 / complete keys

Task 1

A dresser front is 100 cm wide and 80 cm tall. Case margins are 4 cm left, right, and top. Gaps between three drawer fronts are 2 cm each. Calculate each drawer front height and state the drawer bank dimensions.

Answer: Drawer bank width = 100 - 4 - 4 = 92 cm. Drawer bank height = 80 - 4 = 76 cm. Two gaps total 4 cm, so combined front height = 76 - 4 = 72 cm. Each front height = 72 / 3 = 24 cm. Drawer bank is 92 cm wide by 76 cm tall.

Reason: Subtract side margins from width; subtract top margin from height. Remove gap height from bank height, then divide by three.

Check: Verify 24 + 2 + 24 + 2 + 24 = 76 cm bank height; 92 + 4 + 4 = 100 cm width.

Task 2

A dresser has three drawer fronts each 20 cm tall, with 1.5 cm gaps between them. The top margin is 6 cm. What is the total height from the top of the case to the bottom of the lowest drawer front?

Answer: Total height = top margin + three fronts + two gaps = 6 + 20 + 20 + 20 + 1.5 + 1.5 = 69 cm.

Reason: Add the top margin, all three drawer front heights, and both gap heights.

Check: Re-add in a different order: 20 + 1.5 + 20 + 1.5 + 20 + 6 = 69 cm.

Task 3

A dresser front is 75 cm wide. Case margins are 3 cm left and 3 cm right. Drawer fronts align with the drawer bank. What is the width of each drawer front?

Answer: Drawer bank width = 75 - 3 - 3 = 69 cm. Each drawer front width = 69 cm.

Reason: Drawer fronts span the full drawer bank width, so subtract side margins from overall width.

Check: 69 + 3 + 3 = 75 cm overall width.

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Original tasks 4 / complete keys

Task 4

Legs are 14 cm tall and 5 cm wide. The case height is 70 cm. What is the total height of the dresser from the floor to the case top?

Answer: Total height = leg height + case height = 14 + 70 = 84 cm.

Reason: The legs raise the case above the floor, so add leg height to case height for the overall height.

Check: 84 - 70 = 14 cm leg height; confirm all units are centimetres.

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Source rubric / reflection

- [ ] Outer case rectangle matches measured width and height within 1 cm.
- [ ] Drawer bank margins are equal on left and right, and top margin matches chosen value.
- [ ] Three drawer fronts are separated by two gap lines; heights sum correctly with gaps.
- [ ] Drawer front edges align with drawer bank sides, not outer case.
- [ ] Front legs are placed at outer corners below the case with measured width and height.
- [ ] All lines are contour only; no shading, hatching, or smudging.
- [ ] Labels or lettering follow stated x-height convention (baseline to midline) and are legible.

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