Chair Drawing Worksheets: Sequenced Step Boxes for Simple Chair Construction

Original tasks 1, 2, 3 / complete keys

Task 1

A student draws a seat 8 units wide and 3 units tall with its top on the midline and its bottom 3 units above the baseline, then adds two front legs 3 units long and two back legs 3 units long from the seat bottom to the baseline. The backrest is 6 units tall and starts at the midline. List the correct drawing order and one check.

Answer: Order: seat, front legs, back legs, backrest. Check: all four legs touch the baseline and the backrest lower edge sits on the midline; the baseline-to-midline distance should be 6 units (seat height 3 plus leg length 3).

Reason: The sequence follows seat first, then legs, then backrest. The check confirms floor contact and backrest placement.

Check: Measure leg length and confirm each leg reaches the baseline with no gap. Measure backrest height from the midline.

Task 2

In a four-box sequence, box two shows a seat and two front legs. Box three shows a seat, two front legs, and two back legs. What should box four add, and where should it start?

Answer: Box four adds the backrest above the seat, starting at the midline.

Reason: The backrest is the final shape in the sequence and must sit above the seat.

Check: Confirm the backrest lower edge is on the midline and the backrest is drawn after all legs.

Task 3

A chair drawing has legs that stop 1 unit above the baseline. The seat is 6 units wide and 2 units tall with its top on the midline and its bottom 2 units above the baseline; legs are intended to be 2 units long from seat bottom to baseline. Suggest a fix and a check.

Answer: Extend each leg by 1 unit so it touches the baseline, making each leg 2 units long from seat bottom to baseline. Check by measuring from the seat bottom to the baseline and comparing with leg length.

Reason: Legs must contact the floor reference. Extending them restores the baseline contact and matches the intended 2-unit leg length.

Check: Use a ruler to confirm zero gap between each leg end and the baseline.

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Original tasks 4 / complete keys

Task 4

A student draws a chair with a curved backrest that starts at the midline and is 5 units tall. The seat is 7 units wide and 2 units tall. Is this valid under the convention? Give one reason.

Answer: Yes, it is valid. The backrest starts at the midline and the sequence is correct; curved backrests are allowed.

Reason: The convention fixes baseline and midline references, not backrest shape. Valid alternatives include curved or slatted backrests.

Check: Confirm the backrest lower edge is on the midline and the seat was drawn first.

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Source rubric / reflection

- [ ] Seat drawn first between baseline and midline.
- [ ] Front legs added second and touch the baseline.
- [ ] Back legs added third and touch the baseline.
- [ ] Backrest added last and starts at the midline.
- [ ] Sequence repeated correctly in the practice row.
- [ ] Different backrest shape used in the final task while keeping the sequence.
- [ ] Valid alternatives accepted: curved seat, slatted backrest, slight lean.

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