Draw an Elevator Cab with Open Doors and Floor Lines

Original tasks 1, 2 / complete keys

Task 1

Draw a front-view elevator cab with a cab frame 10 cm wide and 8 cm tall. The door opening is 5 cm wide and centered. Use four parallel floor lines spaced 1.5 cm apart. State your convention and label the threshold.

Answer: A cab frame 10 by 8 cm with a centered 5 cm door opening leaves 2.5 cm side walls on each side. Four parallel floor lines spaced 1.5 cm apart run from the threshold to the back wall. The threshold lies on the baseline. Convention stated: parallel floor lines.

Reason: Centering the door opening keeps the side walls equal, which supports the cab interior reading. Parallel lines are a valid convention when stated. The threshold on the baseline keeps the floor level.

Check: Measure the frame and opening; confirm 2.5 cm side walls on both sides. Check that all four floor lines are parallel and 1.5 cm apart. Confirm the threshold is on the baseline.

Task 2

Draw a cab with converging floor lines. Place the vanishing point on the midline 3 cm behind the back wall. Draw three floor lines from the threshold to the back wall. The cab frame is 12 cm wide and 9 cm tall; the door opening is 6 cm wide and centered.

Answer: A 12 by 9 cm cab frame with a centered 6 cm door opening leaves 3 cm side walls. The vanishing point is on the midline 3 cm behind the back wall. Three floor lines start at the threshold and converge toward the vanishing point, ending at the back wall. Convention stated: converging floor lines.

Reason: Converging lines add depth and are valid when stated. The centered opening and equal side walls keep the cab balanced. The vanishing point on the midline keeps the perspective consistent.

Check: Confirm the vanishing point is on the midline and 3 cm behind the back wall. Check that each floor line starts at the threshold and ends at the back wall. Measure the side walls to confirm they are equal.

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Original tasks 3, 4 / complete keys

Task 3

Draw a cab with a door opening 7 cm wide in a 14 cm wide frame. Use five parallel floor lines spaced 1 cm apart. Add two open door panels angled outward. State your convention and check that the door panels do not cross the opening.

Answer: A 14 cm frame with a 7 cm opening leaves 3.5 cm side walls on each side. Five parallel floor lines spaced 1 cm apart run from the threshold to the back wall. Two door panels are angled outward at the sides of the doorway without crossing the opening. Convention stated: parallel floor lines.

Reason: Equal side walls keep the cab balanced. Parallel lines are consistent when stated. Angling the door panels outward shows the opening clearly without blocking it.

Check: Measure the side walls to confirm 3.5 cm on each side. Check that the five floor lines are parallel and 1 cm apart. Confirm the door panels stay outside the 7 cm opening.

Task 4

Draw a cab with a cab frame 9 cm wide and 7 cm tall. The door opening is 4 cm wide and centered. Use three converging floor lines with the vanishing point on the midline 2 cm behind the back wall. Label the threshold and state your convention.

Answer: A 9 by 7 cm frame with a centered 4 cm opening leaves 2.5 cm side walls on each side. Three floor lines start at the threshold and converge toward the vanishing point on the midline 2 cm behind the back wall. The threshold is on the baseline. Convention stated: converging floor lines.

Reason: The centered opening keeps the side walls equal. Converging lines are valid when stated and the vanishing point is consistently placed. The threshold on the baseline keeps the floor level.

Check: Measure the side walls to confirm 2.5 cm on each side. Check that the vanishing point is on the midline and 2 cm behind the back wall. Confirm each floor line starts at the threshold and ends at the back wall.

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Source rubric / reflection

- [ ] Cab frame is drawn wider than the door opening, with visible side walls.
- [ ] Door opening is clearly shown with two vertical door-frame edges and a threshold on the baseline.
- [ ] Open door panels are angled to the sides so the doorway is not blocked.
- [ ] Floor lines follow one stated convention: either all parallel or all converging.
- [ ] Floor lines start at the threshold and end at the back wall.
- [ ] Final drawing is clean, with guides erased and key edges darkened.
- [ ] No building context, mechanical systems, or safety signage is included.

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