Shoe Drawing from Multiple Perspectives: Front, Side, and Top Views

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a front view of a shoe with sole width 4 units and opening height 3 units. Use a baseline and midline. Check left-right symmetry.

Answer: A front view with sole width 4 units, opening centered at midline height 3 units, and equal left-right distances from the center line.

Reason: The sole width sets the overall front proportion; the opening height is measured from baseline to midline. Symmetry is checked by measuring left and right distances.

Check: Measure sole width and opening height with your unit; measure left and right distances from center line and confirm they are equal.

Task 2

Draw a side view with length 7 units and heel height 2 units. Set the midline at 3 units, which is the front-view opening height for this task. Sketch a top view with length 7 units and check that side length matches top length.

Answer: A side view with length 7 units, heel height 2 units, midline at 3 units (matching the front-view opening height of 3 units), and a top view with length 7 units.

Reason: Side length and top length must match. The side-view midline is set equal to the front-view opening height, while heel height is measured separately from the baseline to the heel counter top.

Check: Use a ruler to compare side length and top length. Confirm the side-view midline is 3 units above baseline, matching the stated front-view opening height, and confirm heel height is 2 units.

Task 3

Sketch a top view with footprint length 6 units and width 3 units. Place an opening centered with width 2 units. Check that opening width matches a front view you draw with opening width 2 units.

Answer: A top view with footprint 6 by 3 units and centered opening width 2 units; a front view with opening width 2 units.

Reason: The top view establishes footprint proportions; the opening width must match the front view for consistency.

Check: Measure footprint length and width; measure opening width in both views and confirm they are equal.

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Original tasks 4 / complete keys

Task 4

Create a three-view plate for a shoe with sole width 3 units, opening height 2 units, length 5 units, and heel height 1 unit. Check all alignment rules and list any adjustments.

Answer: A plate with front width 3 and opening height 2; side length 5 and heel height 1; top length 5 and width 3; opening widths match; midline heights match. Adjustments listed if any measurement differs.

Reason: All views share one unit; alignment checks compare width, length, and midline height across views.

Check: Measure each dimension with the unit; verify front width equals top width, side length equals top length, and midline heights match.

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Source rubric / reflection

- [ ] All three views are present and labeled.
- [ ] One measurement unit is defined and used consistently.
- [ ] Front view sole width and opening height match recorded measurements.
- [ ] Side view length and heel height match recorded measurements.
- [ ] Top view length and width match side and front views.
- [ ] Midline heights align across front and side views.
- [ ] Opening width matches between front and top views.
- [ ] Construction lines are light and erased or clearly separate.
- [ ] Valid alternative shoe styles are accepted if proportions and alignment checks pass.

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