Draw a Table: Legs, Top, and Edge Construction

Original tasks 1, 2, 3, 4 / complete keys

Task 1

A tabletop is 100 units wide and 50 units deep. Legs are inset 8 units on each side. What is the leg footprint width and depth?

Answer: Footprint width is 100 minus 8 minus 8 = 84 units. Footprint depth is 50 minus 8 minus 8 = 34 units.

Reason: Inset reduces each side, so subtract twice the inset from each overall dimension.

Check: Add the two insets back to each footprint dimension: 84 + 8 + 8 = 100 and 34 + 8 + 8 = 50.

Task 2

A table is 80 units high. The edge thickness is 4 units. Where should the underside of the top be marked if the top surface is at 80 units?

Answer: The underside should be marked at 76 units above the floor baseline.

Reason: Edge thickness sits below the top surface, so subtract the thickness from the top height.

Check: Add the thickness back: 76 + 4 = 80 units.

Task 3

You draw a tabletop 90 units wide and 45 units deep. You want the leg footprint to be 70 units wide. What inset on each side gives that footprint?

Answer: The inset is 10 units on each side.

Reason: The total reduction is 90 minus 70 = 20 units, split equally between two sides, so each inset is 10 units.

Check: Subtract twice the inset from the width: 90 minus 10 minus 10 = 70 units.

Task 4

A table has a 6-unit edge thickness. The front edge is drawn at 60 units above the baseline. What height should the lower edge-thickness line be drawn at?

Answer: The lower edge-thickness line should be at 54 units above the baseline.

Reason: The thickness line is below the front edge by the thickness value, so subtract 6 from 60.

Check: Add the thickness to the lower line: 54 + 6 = 60 units.

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Source rubric / reflection

- [ ] Legs are placed before the top and all leg tops align with the underside of the tabletop.
- [ ] The top surface has opposite edges that are parallel or clearly explained if an alternative shape is used.
- [ ] Edge thickness is consistent on all visible sides and uses one chosen value.
- [ ] Construction order is visible or described, and any alternative choices are labeled as hypothetical examples.
- [ ] Final drawing is clear, with unnecessary construction lines removed and key measurements labeled.

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