Draw a 1964 Impala: Body-Line and Trim Practice

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

Task 1

A side-view box is 20 cm wide. You choose a hypothetical body length of 15 cm and roof height of 5 cm. Where do you place the front wheel arch center if it sits at one-third of the body length from the front?

Answer: 5 cm from the front of the body.

Reason: One-third of 15 cm is 5 cm. Measure from the front edge of the body block.

Check: Measure 5 cm from the front body edge and confirm it is one-third of 15 cm.

Task 2

Your body height is 6 cm. You want the main trim line at half body height above the ground. How many centimeters above the ground is the trim line?

Answer: 3 cm above the ground.

Reason: Half of 6 cm is 3 cm. Use the ground line as zero.

Check: Measure from ground line to trim line; it should be 3 cm.

Task 3

You draw a roof trapezoid with a peak 1 cm behind the centerline. The body length is 18 cm. How far is the peak from the front edge?

Answer: 10 cm from the front edge.

Reason: Centerline is at 9 cm. Peak is 1 cm behind centerline, so 9 + 1 = 10 cm.

Check: Measure from front edge to peak; confirm 10 cm.

Task 4

Your rear wheel arch center is 4 cm from the rear edge of an 18 cm body. How far is it from the front edge?

Answer: 14 cm from the front edge.

Reason: 18 cm minus 4 cm equals 14 cm.

Check: Measure from front edge to rear arch center; confirm 14 cm.

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Source rubric / reflection

- [ ] Baseline and midline are drawn and labels respect x-height.
- [ ] Body length is about three times roof height, or the chosen ratio is stated.
- [ ] Roofline is relatively flat with a gentle rear slope.
- [ ] Front hood is longer than rear deck in side view.
- [ ] Two wheel arches are rounded, slightly larger than tires, and centered under body sections.
- [ ] Main side trim is parallel to the ground, with any step explained.
- [ ] Labels are legible and within baseline-to-midline x-height.
- [ ] Valid alternatives are allowed if explained in notes.

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