Caribou Drawing: Antler Branching, Hooves, and Body Proportion

Original tasks 1, 2, 3 / complete keys

Task 1

A caribou drawing uses a head length of 3 cm. The body is drawn 10.5 cm long and the shoulder height is 7.5 cm. Are these proportions consistent with 3.5 HL body length and 2.5 HL shoulder height? Show your arithmetic.

Answer: Yes. 3.5 HL = 3.5 × 3 cm = 10.5 cm. 2.5 HL = 2.5 × 3 cm = 7.5 cm. Both match.

Reason: Multiply the head-length unit by the proportion factors and compare with the drawn measurements.

Check: Recompute 3 × 3.5 and 3 × 2.5, then confirm the drawn values equal those products.

Task 2

An antler spread is drawn as 4.5 cm tip to tip using a head length of 3 cm. What is the spread in HL units? If the target is 1.5 HL, is the drawing correct?

Answer: 4.5 cm ÷ 3 cm = 1.5 HL. Yes, it matches the target.

Reason: Divide the measured spread by the head-length unit to convert to HL units.

Check: Multiply 1.5 by 3 cm to recover 4.5 cm.

Task 3

A hoof block is drawn 0.6 cm tall with a head length of 3 cm. The planned hoof height is 0.2 HL. Is the hoof too tall, too short, or correct? Give the target height.

Answer: Target height = 0.2 × 3 cm = 0.6 cm. The hoof is correct.

Reason: Convert the planned proportion to centimeters using the head-length unit.

Check: Divide 0.6 cm by 3 cm to confirm 0.2 HL.

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Original tasks 4 / complete keys

Task 4

A body is drawn 12 cm long with a head length of 4 cm. The shoulder height is drawn 8 cm. Check body length and shoulder height against 3.5 HL and 2.5 HL. State any correction needed.

Answer: Body target = 3.5 × 4 cm = 14 cm, so 12 cm is 2 cm too short. Shoulder target = 2.5 × 4 cm = 10 cm, so 8 cm is 2 cm too short. Lengthen the body by 2 cm and raise the shoulder by 2 cm.

Reason: Compute each target from the HL unit and subtract the drawn value to find the difference.

Check: Add the corrections back: 12 + 2 = 14 cm and 8 + 2 = 10 cm, then divide by 4 cm to confirm 3.5 HL and 2.5 HL.

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Source rubric / reflection

- [ ] Body length and shoulder height are measured against a clearly marked head-length unit.
- [ ] The back line is a gentle arc and the chest is deeper than the hindquarters.
- [ ] Antlers show a main beam with at least three clear branches per side and visible junctions.
- [ ] Hooves are two-toed wedges with a center split and sit on the ground line.
- [ ] Construction lines are light and final lines are readable.
- [ ] Valid alternative styles are accepted if structural clarity and consistent units are maintained.

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