Jackrabbit Drawing: Ear and Hind-Leg Proportion Guide

Original tasks 1, 2, 3 / complete keys

Task 1

A body box is 14 cm tall and each ear guide is 10.5 cm long. Compute the ear ratio and state whether it equals 0.75.

Answer: 10.5 divided by 14 equals 0.75, so yes, it equals 0.75.

Reason: Ear ratio is ear length divided by body-box height, using the same unit.

Check: Multiply 0.75 by 14 to recover 10.5 cm, and confirm both measures are in centimeters.

Task 2

A hind leg has a hip-to-ground distance of 12 cm and a body box 16 cm tall. Compute the hind-leg ratio. Then state what the ratio becomes if the hip-to-ground distance is shortened to 10 cm.

Answer: First ratio is 12 divided by 16, or 0.75. After shortening, 10 divided by 16 equals 0.625.

Reason: The ratio uses hip-to-ground distance over body height; the body height stays fixed while the leg distance changes.

Check: Recompute both divisions and verify that 0.75 times 16 is 12 and 0.625 times 16 is 10.

Task 3

An ear guide is 9 cm and the body box is 12 cm. A second drawing has an ear guide of 6 cm and a body box of 8 cm. Compute both ear ratios and say which drawing has the larger ratio.

Answer: First ratio is 9 divided by 12, or 0.75. Second ratio is 6 divided by 8, also 0.75. Neither is larger; they are equal.

Reason: Both ratios simplify to three quarters, so different absolute sizes can produce the same proportion.

Check: Reduce each fraction and compare; also multiply each ratio by its body height to recover the ear length.

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Original tasks 4 / complete keys

Task 4

A planned knee angle is 120 degrees. A drawn thigh-shank pair measures 95 degrees inside the fold. State the difference and one adjustment that would move the drawing toward the plan without claiming a universal correct angle.

Answer: The difference is 25 degrees. One adjustment is to open the shank line away from the thigh until the measured inside angle is closer to the planned 120 degrees, then re-measure and record the new value.

Reason: Subtract the smaller angle from the larger to find the gap. The planned angle is a chosen practice value, not a standard, so the adjustment is toward the plan rather than toward one universal answer.

Check: Re-measure the inside angle after adjustment and confirm the new difference is smaller; record both values.

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Source rubric / reflection

- [ ] Ear length is measured and compared to body-box height with a recorded ratio.
- [ ] Hind leg is drawn as thigh, shank, and foot with a measured inside knee angle.
- [ ] Labels use the baseline-to-midline x-height convention and remain readable.
- [ ] At least one valid stylistic alternative is allowed if the recorded proportions stay consistent.
- [ ] Final drawing keeps ear and leg proportion checks visible or noted.

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