Draw an Alicorn: Horn, Wing, and Body Proportion Construction

Original tasks 1, 2, 3 / complete keys

Task 1

On a blank frame, draw a body proportion grid where one head unit is 3 cm. Mark the torso length, neck length, and leg length using the ratios 1 to 3.5, 0.7, and 2.2. Describe where the shoulder circle goes and its diameter.

Answer: Torso = 10.5 cm, neck = 2.1 cm, legs = 6.6 cm. The shoulder circle sits where the front leg meets the torso, diameter = 1.2 cm.

Reason: Multiply each ratio by the 3 cm head unit: 3.5 times 3 = 10.5; 0.7 times 3 = 2.1; 2.2 times 3 = 6.6; 0.4 times 3 = 1.2.

Check: Re-measure each segment with the same ruler and confirm the torso is exactly 3.5 times the head unit.

Task 2

A drawing has a head unit of 5 cm and a torso of 15 cm. Is the torso proportion correct for the 1 to 3.5 ratio? If not, state the correct torso length and the difference.

Answer: No. Correct torso = 17.5 cm; the drawing is 2.5 cm short.

Reason: 3.5 times 5 = 17.5 cm. 17.5 minus 15 = 2.5 cm.

Check: Divide the torso by the head unit: 15 divided by 5 = 3.0, which is less than 3.5.

Task 3

Describe how to place a horn base and a wing root on an alicorn whose head unit is 4 cm. Give the horn base location relative to the eye line and the shoulder circle diameter, then state one valid alternative horn style.

Answer: Horn base on the forehead midline in the upper third of the head unit, above the eye line and below the ears. Shoulder circle diameter = 1.6 cm, with the wing root inside it above the leg joint. A straight tapered horn is a valid alternative.

Reason: The upper third of 4 cm is about 1.3 cm from the skull top; the shoulder circle is 0.4 times 4 = 1.6 cm. The horn style may vary if the base anchor is correct.

Check: Confirm the horn base is centered on the midline and above the eye line, and the wing root is inside the 1.6 cm circle.

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Original tasks 4 / complete keys

Task 4

A learner draws a spread wing rooted 2 cm outside a shoulder circle that is 1.2 cm across. The head unit is 3 cm. State the error, the correct root location, and whether a folded wing would also be valid at that same root.

Answer: The wing root is outside the shoulder circle. Correct root: inside the 1.2 cm circle above the leg joint. Yes, a folded wing is also valid at the same root.

Reason: The shoulder circle is 0.4 times 3 = 1.2 cm. The root must be inside it regardless of wing variant. Folded and spread wings share the same attachment point.

Check: Measure the distance from the root to the circle center; it must be less than 0.6 cm, the circle radius.

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Source rubric / reflection

- [ ] Horn base is centered on the forehead midline above the eye line and below the ears.
- [ ] Wing root sits inside the shoulder circle where the front leg meets the torso.
- [ ] Torso length equals 3.5 head units using one consistent head unit.
- [ ] Neck and leg guides use the same head unit as the torso.
- [ ] Construction guides are light and final outlines are clear.
- [ ] Valid alternatives such as straight or curved horns and folded or spread wings are accepted when anchors are correct.

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