Wolf Cub Drawing: Juvenile Proportion Construction Guide

Original tasks 1, 2, 3 / complete keys

Task 1

A cub drawing has a head height of 3 cm. Using the guide ratios, calculate torso height, torso length, and leg length.

Answer: Torso height ≈ 2.0 cm; torso length = 3.6 cm; leg length = 2.4 cm.

Reason: Multiply head height by 0.67 for torso height, by 1.2 for torso length, and by 0.8 for leg length: 3 × 0.67 ≈ 2.0; 3 × 1.2 = 3.6; 3 × 0.8 = 2.4.

Check: Re-measure each drawn dimension and confirm it is within 10 percent of the calculated value; record units consistently.

Task 2

A learner draws a torso 8 cm tall and a head 4 cm tall. Is the head-to-torso ratio correct for the juvenile guide? Show the arithmetic.

Answer: No. The target torso height is 0.67 × 4 ≈ 2.7 cm, but the drawn torso is 8 cm, which is far too tall (about 5.3 cm over, roughly 200 percent over).

Reason: The guide ratio requires torso height to be about 0.67 times head height. 4 × 0.67 ≈ 2.7 cm. The drawn 8 cm greatly exceeds this.

Check: Divide drawn torso height by head height: 8 ÷ 4 = 2.0, which is far above the target 0.67; shorten the torso oval substantially.

Task 3

Describe how to place the ears and muzzle on a cub with head height 6 cm, using the guide proportions, and state the resulting measurements.

Answer: Ears are about 3 cm tall (0.5 × 6) and placed high on the skull; muzzle is about 2.4 cm long (0.4 × 6) and set low on the face.

Reason: Ear height is 0.5 HH and muzzle length is 0.4 HH; multiplying by 6 cm gives 3 cm and 2.4 cm respectively.

Check: Measure each ear and the muzzle against the calculated values; confirm placement high on skull and low on face by comparing to the head rectangle.

Wolf Cub Drawing: Juvenile Proportion Construction Guide

Original tasks 4 / complete keys

Task 4

A drawing has head height 5 cm, torso height 3.5 cm, torso length 6 cm, and leg length 4 cm. Identify which dimension deviates most from the guide and by how much.

Answer: Torso height deviates most: target is about 3.35 cm, drawn is 3.5 cm, a difference of about 0.15 cm (roughly 4.5 percent).

Reason: Targets: torso height ≈ 3.35 cm, torso length 6 cm, leg length 4 cm. Differences: torso height ≈ 0.15 cm; torso length 0 cm; leg length 0 cm. The largest difference is torso height.

Check: Compute each target by multiplication, subtract the drawn value, and compare absolute differences; confirm the largest difference matches the answer.

Wolf Cub Drawing: Juvenile Proportion Construction Guide

Source rubric / reflection

- [ ] Head height is clearly larger than torso height, approximately 1.5 times, with measurements recorded.
- [ ] Torso height is approximately 0.67 HH and torso length is approximately 1.2 HH; the torso is compact, not elongated.
- [ ] Legs are short, approximately 0.8 HH from paw baseline to shoulder.
- [ ] Neck is nearly invisible; head attaches directly to torso.
- [ ] Ears are large and rounded, about 0.5 HH tall, placed high on the skull.
- [ ] Muzzle is short and blunt, about 0.4 HH long.
- [ ] Proportion checks are shown with consistent units and simple arithmetic.
- [ ] Valid alternative proportions are accepted if labeled and internally consistent.

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