# Orangutan Drawing Simple: Face Proportions and Arm Pose

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

Task 1

A face oval has H = 12 cm and W = 9.6 cm. Where should the eye centers be placed horizontally if they sit at 0.25W and 0.75W?

Answer: At 2.4 cm and 7.2 cm from the left edge.

Reason: 0.25 times 9.6 equals 2.4, and 0.75 times 9.6 equals 7.2. These are the horizontal positions on the midline.

Check: Measure from the left edge of the oval and confirm the two distances add to 9.6 cm.

Task 2

An arm has a forearm of 6 cm. Using the hypothetical hand length of 0.6 times the forearm, what is the hand length?

Answer: 3.6 cm.

Reason: Multiply 6 by 0.6 to get 3.6. This keeps the hand proportional to the forearm.

Check: Divide the hand length by the forearm length and confirm the result is about 0.6.

Task 3

A face oval is 10 cm tall. The mouth line is at 0.75H from the top. How far is the mouth line from the top, and how far from the bottom?

Answer: 7.5 cm from the top and 2.5 cm from the bottom.

Reason: 0.75 times 10 equals 7.5. Subtract 7.5 from 10 to get 2.5.

Check: Add the two distances and confirm they equal 10 cm.

Task 4

You draw an elbow angle of 110 degrees. Is this within the suggested range of 90 to 120 degrees? Explain.

Answer: Yes, 110 degrees is between 90 and 120 degrees.

Reason: The range is inclusive from 90 to 120. Since 110 is greater than 90 and less than 120, it fits.

Check: Compare the measured angle to the endpoints 90 and 120 and confirm it lies between them.

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Source rubric / reflection

- [ ] Face oval has a labeled height H and width W.
- [ ] Eyes are placed on the horizontal midline at consistent fractions of W.
- [ ] Nose bridge and mouth line follow the chosen proportions.
- [ ] Arm has three segments and a visible elbow bend between 90 and 120 degrees.
- [ ] Hand length is about 0.6 times the forearm length, or a recorded alternative.
- [ ] Two practice faces use the same H and W for comparison.
- [ ] Valid alternatives are allowed if proportions are consistent and recorded.

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