Draw a Beagle: Ear, Muzzle and Body Proportions

Original tasks 1, 2, 3 / complete keys

Task 1

A learner draws a head oval 6 cm tall. Using the hypothetical proportions, calculate the body length, body height, muzzle width, and ear length in centimeters.

Answer: Body length = 12 cm; body height = 6 cm; muzzle width = 3 cm; ear length = 7.5 cm.

Reason: Head-width unit = 6 cm. Body length is 2 units = 12 cm. Body height is 1 unit = 6 cm. Muzzle width is 0.5 unit = 3 cm. Ear length is 1.25 units = 7.5 cm.

Check: Divide each result by 6 cm: 12/6 = 2, 6/6 = 1, 3/6 = 0.5, 7.5/6 = 1.25. The multipliers match the lesson proportions.

Task 2

A learner draws a body oval 10 cm long. Using the hypothetical proportions, calculate the head-width unit, head height, muzzle length, and ear length in centimeters.

Answer: Head-width unit = 5 cm; head height = 5 cm; muzzle length ≈ 1.7 cm; ear length = 6.25 cm.

Reason: Body length is 2 head-widths, so the unit is 10 cm ÷ 2 = 5 cm. Head height is 1 unit = 5 cm. Muzzle length is 1/3 unit ≈ 1.7 cm. Ear length is 1.25 units = 6.25 cm.

Check: Multiply the unit 5 cm by each multiplier: 2 × 5 = 10 cm body length, 1 × 5 = 5 cm head height, 0.33 × 5 ≈ 1.7 cm muzzle length, 1.25 × 5 = 6.25 cm ear length.

Task 3

A learner draws an ear 8 cm long. Using the hypothetical proportions, calculate the head-width unit, head height, body length, and muzzle width in centimeters.

Answer: Head-width unit = 6.4 cm; head height = 6.4 cm; body length = 12.8 cm; muzzle width = 3.2 cm.

Reason: Ear length is 1.25 head-widths, so the unit is 8 cm ÷ 1.25 = 6.4 cm. Head height is 1 unit = 6.4 cm. Body length is 2 units = 12.8 cm. Muzzle width is 0.5 unit = 3.2 cm.

Check: Multiply the unit 6.4 cm by each multiplier: 1.25 × 6.4 = 8 cm ear length, 1 × 6.4 = 6.4 cm head height, 2 × 6.4 = 12.8 cm body length, 0.5 × 6.4 = 3.2 cm muzzle width.

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Original tasks 4 / complete keys

Task 4

A learner draws a muzzle 2 cm wide. Using the hypothetical proportions, calculate the head-width unit, head height, ear length, and body length in centimeters.

Answer: Head-width unit = 4 cm; head height = 4 cm; ear length = 5 cm; body length = 8 cm.

Reason: Muzzle width is 0.5 head-widths, so the unit is 2 cm ÷ 0.5 = 4 cm. Head height is 1 unit = 4 cm. Ear length is 1.25 units = 5 cm. Body length is 2 units = 8 cm.

Check: Multiply the unit 4 cm by each multiplier: 0.5 × 4 = 2 cm muzzle width, 1 × 4 = 4 cm head height, 1.25 × 4 = 5 cm ear length, 2 × 4 = 8 cm body length.

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Source rubric / reflection

- [ ] Body oval is about two head-widths long and one head-width tall.
- [ ] Head oval is about one head-width tall and overlaps the front of the body.
- [ ] Muzzle is a rounded square about half a head-width wide and one third of a head-width long.
- [ ] Near ear starts behind the eye line and hangs past the bottom of the head oval by about one quarter head-width.
- [ ] Far ear is drawn smaller behind the head oval.
- [ ] Eye line and midline are used consistently.
- [ ] Labels are legible at x-height baseline to midline; letter style may vary.
- [ ] Final outline is darkened only after proportion checks pass.

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