Leg Proportion Drawing: Thigh, Knee, Calf, Ankle

Original tasks 1, 2 / independent work

Task 1

A leg has L = 12 grid squares with ratios thigh 40 percent, knee 10 percent, calf 40 percent, ankle 10 percent. List the four boundary tick positions from the top of the thigh.

Task 2

In a side-view sketch, the knee center is at 5.0 squares and the ankle center is at 9.0 squares. The calf segment is 3.5 squares and the knee block is 1.0 square. Does the landmark distance pass the arithmetic check?

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Original tasks 3, 4 / independent work

Task 3

A practice row uses L = 8 squares with thigh 3.2, knee 0.8, calf 3.2, and ankle 0.8 squares. A second row uses L = 8 squares with thigh 3.0, knee 1.0, calf 3.0, and ankle 1.0 squares. Which row uses the 40-10-40-10 ratio convention, and what is the knee-center to ankle-center distance in that row?

Task 4

You are drawing a front view with L = 10 squares. The knee block is drawn 1.5 squares wide, and the thigh at the knee tick is 1.2 squares wide. Is the knee block acceptable under the lesson convention? State the check.