Draw a Pointing Finger: Knuckle and Proportion Construction

Original tasks 1, 2 / independent work

Task 1

A palm block is 8 cm wide. Using the hypothetical ratio of 1.5 to 1, calculate the index finger length. Then divide the finger into three segments where the distal segment is 0.5 cm shorter than the middle segment and the proximal segment is 0.3 cm longer than the middle segment. Give all three lengths.

Task 2

A drawing has a palm width of 5 cm and an index finger length of 6.5 cm. Is the finger-to-palm ratio close to the hypothetical 1.5 to 1? If not, by how many centimeters should the finger length change to reach 1.5 to 1?

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Original tasks 3, 4 / independent work

Task 3

You draw the same pointing gesture at two scales. At the small scale, palm width is 3 cm and finger length is 4.2 cm. At the large scale, palm width is 9 cm and finger length is 13.5 cm. Are the ratios consistent? Show the arithmetic.

Task 4

A palm block is 7 cm wide and 4.6 cm tall. Using the hypothetical palm height of about 0.66 times the width, is the height acceptable? If not, what should the height be, and what is the difference?