Mapping Snake-Scale Bands onto a Human Arm or Leg

Original tasks 1, 2 / independent work

Task 1

An arm outline has a forearm width of 50 mm at the top and 40 mm at the wrist. You plan five bands. Using the hypothetical average width, find the approximate interval and check it.

Task 2

A thigh tapers from 80 mm at the top to 50 mm at the knee. The taper ratio is 80 / 50 = 1.6. If the hypothetical top interval is 8 mm, what is the approximate joint interval, and how do you check it?

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Original tasks 3, 4 / independent work

Task 3

A calf outline has three cross-sections: 70 mm, 60 mm, and 50 mm. You plan four bands between the first and second sections. What is the approximate interval, and how do you check it?

Task 4

An upper arm has a top width of 75 mm and an elbow width of 45 mm. You want the hypothetical joint interval to be 6 mm. What top interval follows from the taper ratio, and how do you check it?