Draw a Head from Sphere, Box and Wedge Masses

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: A student draws a sphere 6 cm wide, a jaw box 4 cm wide, and a wedge 5 cm long. The jaw box top edge sits 1 cm below the sphere center. Is the combination balanced?

Answer: The ratios are jaw width divided by sphere diameter = 4/6 ≈ 0.67, and wedge length divided by sphere diameter = 5/6 ≈ 0.83. Both fall within the example ranges of about two-thirds and five-sixths. However, the jaw box top edge should touch the cheek line, not sit below the sphere center. Raise the box until its top edge meets the cheek line, then recheck the ratios.