Loomis Head Construction: Sphere, Planes, and Feature Placement

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

A learner draws a sphere of 10 cm diameter. The brow line is at the horizontal center. The chin is 5 cm below the sphere bottom. Find the nose base height from the brow line and the mouth line height from the nose base.

Answer: The nose base is halfway from brow line to chin. The brow line is 5 cm from the top and 5 cm above the sphere bottom. The chin is 5 cm below the bottom, so the brow-to-chin distance is 5 + 5 = 10 cm. Half is 5 cm, so the nose base is 5 cm below the brow line. The mouth line is one-third from nose base to chin: one-third of 5 cm is about 1.7 cm below the nose base.