Isometric Sports Car Body Drawing: Axes, Wheel Arches, and Body Planes

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.

Isometric Sports Car Body Drawing: Axes, Wheel Arches, and Body Planes

Worked example / complete source key

Construct a low sports car body on an isometric grid with length 44 units, width 18 units, lower hull height 8 units, wheelbase 24 units, and cabin 18 units long, 14 units wide, and 7 units high. Place front and rear axles 10 units from each end. Draw wheel arches with major axis 12 units and minor axis 8 units.

Answer: Draw the three axes from an origin. Block the lower hull as a 44 by 18 by 8 box along L, W, and H. Mark axle centers at 10 units from each end along L, giving a 24-unit wheelbase. On each side plane, draw an ellipse centered on the axle with major axis 12 units parallel to the ground line and minor axis 8 units vertical. Cut the arches and add wheels of 10-unit diameter. Set the cabin box 18 by 14 by 7 on top, centered across W, and rake the windshield by shifting its top edge back 4 units along L. Taper the rear deck by 2 units per side. Check that all vertical lines follow H, length lines follow L, width lines follow W, and arch centers align on both sides.