SUV Drawing: Body Shape and Wheel-Arch Construction

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw an SUV body box 16 cm long and 8 cm tall. Place axles with a 9 cm wheelbase, 3 cm front overhang, and 4 cm rear overhang. Draw two wheel arches with a hypothetical peak height of 1.5 cm and width of 3.5 cm. Add a beltline 1 cm above the arch peaks and a window band 1.5 cm tall.

Answer: The body box is 16 cm by 8 cm. The wheelbase spans 9 cm, with 3 cm front and 4 cm rear overhangs (3+9+4=16 cm). Axle centers sit at the midpoint of each wheelbase end zone. Each arch is centered on its axle, 3.5 cm wide, peaking 1.5 cm above the axle center. The beltline runs 1 cm above the arch peaks, and the window band is 1.5 cm tall above the beltline. Both arches match in width and peak height.