SUV Drawing: Body Shape and Wheel-Arch Construction

Original task 1 / independent drawing and calculation

Task 1

Draw an SUV body box 20 cm long and 10 cm tall. Use a 12 cm wheelbase, 4 cm front overhang, and 4 cm rear overhang. Mark axle centers and draw two arches with a hypothetical peak height of 2 cm and width of 4 cm. Check that the overhangs and wheelbase sum to the body length.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Using a body box 18 cm long and 9 cm tall, place a beltline 1.5 cm above the arch peaks. Draw a window band 2 cm tall above the beltline and divide it into a windshield, two side windows, and a rear window with even gaps. Describe how you check the gaps.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

Draw an SUV with a slightly squared wheel-arch convention instead of a rounded curve. Use a hypothetical arch width of 5 cm and peak height of 2 cm on both sides. Explain how you keep the two arches consistent.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

SUV Drawing: Body Shape and Wheel-Arch Construction

Original task 4 / independent drawing and calculation

Task 4

Draw an SUV body box 22 cm long and 11 cm tall. Use a 14 cm wheelbase, 4 cm front overhang, and 4 cm rear overhang. Add a beltline 1 cm above the arch peaks and a window band 2 cm tall. Check that the total length is consistent and that the window band sits above the beltline.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.