Draw a Dog House: Structure and Perspective

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a doghouse front face 6 units wide and 4 high, with drawing depth D=3, a 1.5-unit gable rise, and a centered 2-by-2.5 entrance. Use VP=(W+2D,H/2) and place the rear side edge halfway along rays from the front-right corners.

Answer: Front face: rectangle from (0,0) to (6,4). Place VP=(12,2). Rays from the front-right corners (6,0) and (6,4) reach the halfway rear edge at x=9: its bottom is (9,1) and top is (9,3). Join them vertically; the side is a projected quadrilateral, not a 3-by-4 rectangle. Put the front gable peak at (3,5.5), using the 1.5-unit rise, and mirror the two front slopes. Extend the ridge from that peak toward VP until it meets the rear roof. Center the 2-by-2.5 entrance from x=2 to4 and y=0 to2.5. The front width-to-height ratio is 6:4=1.5:1, and the roof rise is 1.5/4=0.375.