

IN THE DOGHOUSE

Doug looked through the water-streaked window into the gray, drizzly afternoon. His dog, also named Doug, sat in a puddle on the end of his chain, looking with large eyes at the warm glow coming from his master's window. He whimpered and waved his paw in the air, splashing water into his nose when his paw hit the ground again. Doug watched his drenched pooch and made up his mind—as soon as there was a sunny day, he would build his best friend a doghouse.

He left the window and grabbed a piece of paper from his mom's desk. On the back, he sketched a plan for the doghouse. It would be 3' wide and 2'6" deep. The flat roof would slope from the front to the back and would overlap the house by about 6" on all four sides. The front wall would be 3' high, and the back would be 2' high. There would be a 1'8" square door cut out of the front, and the bottom would be open to the ground. Doug knew that plywood came in 4' by 8' sheets. It was expensive, so he wanted to use as little as possible. He drew a plan to show how he would cut out all the pieces.

Draw a plan to show how you would cut out the pieces for Doug's doghouse. How many sheets of plywood would you need to buy? What would you build with the leftover pieces?

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