Line Drawing of a Barn: Roof, Walls, and Door Construction

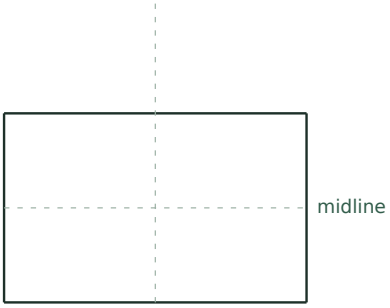
CONSTRUCTION STEPS

Draw a line barn on a 10 cm by 10 cm area using a triangle roof, two vertical walls, and a centered door. Use a baseline of 8 cm, wall height 5 cm, roof peak 3 cm above wall top, and door 2 cm wide by 2 cm tall.

1. Baseline

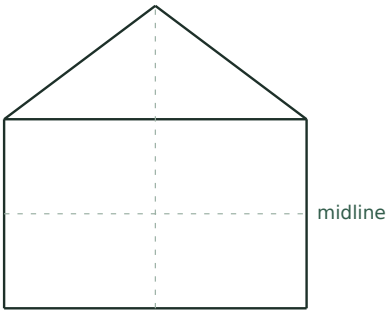
Baseline: 8 cm

2. Walls and midline



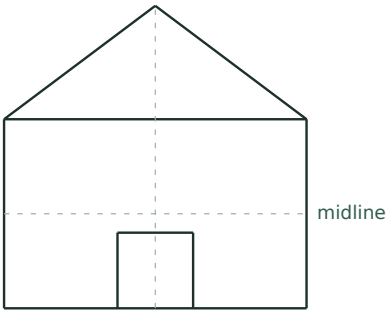
Baseline: 8 cm

3. Roof



Baseline: 8 cm

4. Centered door



Baseline: 8 cm

Reference geometry is printed at 1:2 scale: each stated centimetre is represented by 5 mm on paper at 100% Actual Size. The strict door-below-midline rule is this lesson's drawing convention, not a building standard.

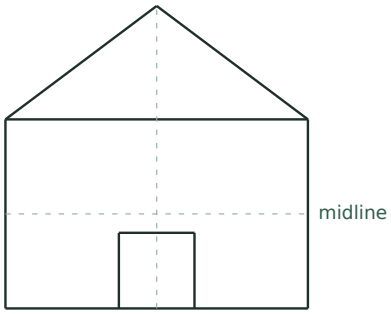
Worked check: wall midline 2.5 cm; door top 2 cm is below it. Door side gaps are (8 - 2) / 2 = 3 cm.

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ROOF COMPARISON

Compare a triangle roof with a centered horizontal-ridge trapezoid roof. Dashed guides show the wall midline and centerline.

Triangle roof

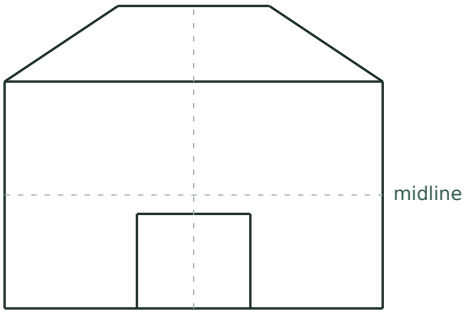


Baseline: 8 cm

Walls 5 cm / roof rise 3 cm

Door 2 x 2 cm; ridge 0 cm

Trapezoid roof



Baseline: 10 cm

Walls 6 cm / roof rise 2 cm

Door 3 x 2.5 cm; ridge 4 cm

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