Off-Grid Cabin Drawing: Solar Panel and Water Features

Original tasks 1, 2 / independent work

Task 1

A cabin front is 5 units wide and 3 units tall. The roof peak is 2 units above the wall top. Using 1 unit = 3 cm, state the paper width, paper wall height, and total height to the peak.

Task 2

A door is 1 unit wide on a cabin front that is 4 units wide. What fraction of the front width is the door, and what is the door width on paper if 1 unit = 2.5 cm?

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Original tasks 3, 4 / independent work

Task 3

A solar panel is drawn on a roof slope that is 6 units long. The panel occupies 3 units of that slope. What fraction of the slope does the panel occupy, and what is the remaining margin in units?

Task 4

A rain barrel is placed 1.5 units from the cabin wall, and a cistern is placed 1.5 units from the wall on the other side. If 1 unit = 2 cm, what is each gap on paper, and what is the total gap width across both sides?