Spanish House Project: Math

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NOTE: Original square footage of the house: 600 sq. ft.
House is a square

Finding Length of Each Wall In Model

1) 600' ÷ 2 = 300'   Perimeter of the model house = 100"
2) 300' ÷ 3 = 100'   Length of each wall: 25"
3) 100' ÷ 2 = 50'
4) 50' $\times$ 12" = 600"
5) 600" ÷ 2 = 300"
6) 300" ÷ 3 = 100"
7) 100" ÷ 2 = 50 "
8) 50" ÷ 4 = 12.5"
9) 12.5" $\times$ 2 = 25"
10) 50" X 2 = 100 "

Finding Square Footage of Model

Area Formula: Base X Height = Area

1) 25" X 25" = 625" in. sq.   Square footage of the model: 52.083333 ft. sq.
2) 625 in. sq ÷ 12 =52.08333'

Finding Scale:

1) 600' X 12" = 7200"   Each wall in real life: 1800"
2) 7200" ÷ 4 = 1800"   Scale: 1 inch = 6 feet
3) 1800" ÷ 25" = 72"

Finding Area of Rooms; Kitchen, Bathroom, Bedroom, and Office

8.3" X 8.3" = 68.89"

Finding Area of The Living Room

1) 8.3" X 8.3" = 68.89"
2) 68.89" X 5" = 344.45"

The Living Room consists of 5 Kitchen/Office/Bathroom/Bedroom sized rooms

Finding Area Of The Whole House

1) 8.3" X 8.3" = 68.89"   Kitchen/Office/Bathroom/Bedroom all same size
2) 68.89" X 5 = 344.45"   Living room = 344.45"
3) 344.45 + 344.45 = 688.9"