

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

You have been assigned to help the creator of a model village know how much material he will need for construction. In the village there will be three different sized buildings. Each building is in the shape of a rectangular prism and will have a roof, a floor, and four walls. The same material will be used for the roof, the floor, and the walls. Your job is to figure out how many square feet of construction material will be needed for the buildings and to show how you figured it out.

Information**Building A**

Number of buildings: 3

Height: 3 feet

Length: 1 foot

Width: 1 foot

Building B

Number of buildings: 1

Height: 5 feet

Length: 2 feet

Width: 1 foot

Building C

Number of buildings: 2

Height: 4 feet

Length: 2 feet

Width: 1 foot

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The total number of square feet of building material is _____.

This is how I figured it out: