

Building Data Log

Name:

Date:

1. *Building:* What does your building look like? What materials did you use?

You are going to build a five-story building, and below is a table that gives a cost inventory for the items you will need. Your building is required to have five floors and a roof. Try to build the best building possible to withstand an earthquake.

TOTAL BUDGET: \$10,000,000

Costs:

| Item | Price per part |
|-------------------------|-----------------------|
| 1 story support columns | \$300,000 |
| 3 story support columns | \$475,000 |
| 5 story support columns | \$700,000 |
| floor | \$500,000 |
| roof | \$1,000,000 |

What did you use?

| Item | Price per part | How many? | Total price |
|--------------|-----------------------|------------------|--------------------|
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| Total | | | |

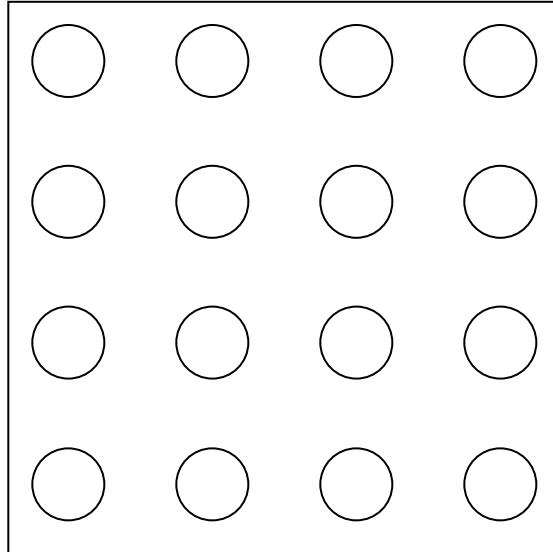
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Drawing of building:

Using the floor plan below of the ground floor, fill in the appropriate circles with the numbers 1, 3, or 5 to indicate the number of stories the support column you are using in that spot.



3. *Results:* What happened? What kind of damage occurred? How much money did your building lose? Would the building done better if the support columns were in other places?