

# Rice-a-Roni: A San Francisco Treat: Problem Handouts



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## Problem Statement

*This is a fictional scenario based on an actual building conversion...*

Mark and Laurie are still reeling from the enormously successful IPO that Laurie's company just launched for their Web Marketing firm. The [Ricearoni](#) site that Laurie created as Vice-President for Web Design brought a lot of attention to the start-up company and more great things are expected from her.

Mark has been finishing up his culinary studies and is at the top of his class of 23. He expects to land a starting position as junior chef at one of the few 4-star restaurants in the city.

They have decided to move out of their cramped apartment into a more distinctive residence. To match their eclectic tastes they have decided to convert a turn-of-the-century church building, right in the heart of the downtown tech district, into a modern oasis. Of course Mark wants a cutting-edge kitchen with *all* the latest and greatest appliances. Laurie would like to do more of her design work at home and wants an office that will serve her effectively.

Coincidentally, Laurie's boss learns that [This Old House](#) is looking for an interesting West Coast project and puts her in touch with the show's producers. After some planning has been done on the [floorplans](#), Mark decides that he would like to convert the first floor bedroom into a combination laundry/workshop.

### Questions:

1. What electrical service is needed for this conversion?
2. Sketch and label power outlet locations for the first floor. Describe the outlet service in enough detail so that a contractor will know how to wire the connections.
3. Sketch the functionality of the new circuit breaker box, with labels to match the breakers to the outlet locations.



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## Floor Plans

