



Instructor: Mr. Heun

**Extra Credit**

Name: \_\_\_\_\_

Class: Stat 2160; \_\_\_\_\_

Period: \_\_\_\_\_

Date due: 17 April 2008 \_\_\_\_\_

**Answer the following questions:**

This extra credit problem will require a little research. You may use Excel to solve it and attach relevant documents.

The next five questions refer to the following situation. Suppose that the management at one hotel has decided to study the process of room readiness for a 4-week period by taking a daily sample of 200 rooms for which guests are holding reservations. Thus, before each arrival, it determines whether the room in the sample contains any non-conformances in terms of the availability of amenities and the working order of all appliances. Table below lists the number and proportion of nonconforming rooms for each day in the 4-week period.

Day	Rooms Not Ready	Rooms Studied	Proportion
1	16	200	0.080
2	7	200	0.035
3	21	200	0.105
4	17	200	0.085
5	25	200	0.125
6	19	200	0.095
7	16	200	0.080
8	15	200	0.075
9	11	200	0.055
10	12	200	0.060
11	22	200	0.110
12	20	200	0.100
13	17	200	0.085
14	26	200	0.130
15	18	200	0.090
16	13	200	0.065
17	15	200	0.075
18	10	200	0.050
19	14	200	0.070
20	25	200	0.125
21	19	200	0.095
22	12	200	0.060
23	6	200	0.030
24	12	200	0.060

