

Statistics – OR 155, Section 1, Homework # 1

Due: Thursday, January 22, 2007

C1: See handout sheet,

<http://stat-or.unc.edu/webpace/courses/marron/UNCstor155-2009/HWAsst/Stor155HWC1.pdf>

3.75, 3.74

C2: See printed sheet,

<http://www.stat-or.unc.edu/webpace/courses/marron/UNCstor155-2009/HWAsst/Stor155HWC2.pdf>

C3: For the letters A – L, use EXCEL to:

- (a) Put in a random order.
 - (b) Choose a random sample of 6.
- (Hints: for (a), want each equally likely,
for (b), reorder, and choose a subset)

C4: Match one of the probabilities:

0, 0.01, 0.3, 0.6, 0.99, 1

with each statement about an event:

- a. Impossible, can't occur.
- b. Certain, will happen on every trial.
- c. Very unlikely, but will occur once in a long while.
- d. Event will occur more often than not.

4.23, 4.24a

4.25

4.21, 4.31

C5: Abby, Bob, Mei-Ling, Sally and Roberto work for a firm. Two will be chosen at random to attend an overseas meeting. The choice will be made by drawing names from a hat (this is an S. R. S. of 2).

- a. Write down all possible choices of 2 of the 5 names. This is the sample space.
- b. Random choice makes all choices equally likely. What is the probability of each choice? (1/10)
- c. What is the prob. that Sally is chosen? (4/10)
- d. What is the prob. that neither Bob, nor Roberto is chosen? (3/10)