
STATISTICS FOR ENGINEERS AND SCIENTISTS
STAT 4073: FALL 2010

Assignment: 2

Due date: September 10, 2010

Practice: Practice problems are *not* assigned to be turned in on the due date, but are rather important for building your skills in statistics.

§2.1: 1 – 7

§2.2: 1 – 7

§2.3: 1 – 3, 11 – 13

§2.4: 1 – 5

§2.5: 1 – 5

Assigned: Assigned problems are the ones I *will* collect on the due date. These problems are intended to summarize the material in the chapter(s).

§2.3: 7

§2.4: 14

§2.5: 14

EoC: 2, 4, 8, 12, 19, 20

Computer Problem:

The computer problem of the week is quite simple:

Flip a coin 1000 times. In your spreadsheet of choice, record a 1 if the coin lands Heads and a 0 if it lands Tails. Save the spreadsheet as a csv file, name it *lastname.csv*, and email it to the professor (ole.j.forsberg@okstate.edu). Of course, change "lastname" to *your* last name.

Next, using your file, calculate the frequency of heads and the relative frequency of heads. Now, use your results in the second part to estimate $P(H)$ and $P(T)$, the probability of getting a Heads and the probability of getting a Tails, respectively.

Which coin should you use? See the table below.

If your <i>last</i> name is between:	Aardvark – Dead	then flip this coin:	penny
	Deal – Icky		nickle
	Illness – Mired		dime
	Mitten – Uvula		quarter
	Vacation – Zoologist		dollar