**Week01Assignment– Due 8/27/ by 8 pm. For this assignment, please e-mail the files (this word file and the excel file) directly to me (**[**kathleen.torkko@cuanschutz.edu**](mailto:kathleen.torkko@cuanschutz.edu)**). In future, assignments will be uploaded to Canvas. This assignment is worth 10 pts if you had it in in time.**

*Save your files using your last name and first initial (e.g., TorkkoK\_Week01AssignmentDueAug27).*

Reading for Weeks 1 and 2 (see canvas folder)

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

Tell me which graduate program you belong to and what degree you are going for:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Degree: PhD\_\_\_\_\_ Masters\_\_\_\_\_ Other:\_\_\_\_\_ None:\_\_\_\_\_

What is your e-mail address?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What statistical packages (e.g., R, Prism, SAS) have you used before, if any?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tell me what you expect from the class (e.g., specific types of data analysis):

Mac or PC? Mac\_\_\_\_\_ PC\_\_\_\_\_\_

Do you need a copy of GraphPad Prism 8? Yes \_\_\_\_\_ No\_\_\_\_\_

***If you check yes, I will add your name to the list on the GraphPad website and you will receive an e-mail from GraphPad that will give you access to a temporary student license for use during the class. If you have an earlier version of Prism, please ask for a ver 8 license as there are differences between the versions.***

Rank TA office hours 1 (best) to 4 (worst)

Monday 1-2\_\_\_\_\_ Monday 2-3\_\_\_\_\_ Monday 3-4\_\_\_\_\_ Tuesday 9-10\_\_\_\_\_

Other best time\_\_\_\_\_\_\_\_\_\_\_ Time(s) above you can’t make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rank Dr. Torkko office hours 1 (best) to 4 (worst)

Wednesday 2-3\_\_\_\_\_ Wednesday 3-4\_\_\_\_\_ Thursday 2-3\_\_\_\_\_ Thursday 3-4\_\_\_\_\_

Other best time\_\_\_\_\_\_\_\_\_\_\_ Time(s) above you can’t make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***The following information will be used in class only as examples for teaching purposes. No personal identifiers will be used. If you are uncomfortable providing any of the answers, please leave the answer blank.***

Age: \_\_\_\_\_\_\_\_\_\_

Gender: \_\_\_\_\_\_\_\_\_\_\_

Height (inches or feet and inches): \_\_\_\_\_\_\_\_\_\_

Father’s height: \_\_\_\_\_\_\_\_\_\_\_

Mother’s height: \_\_\_\_\_\_\_\_\_\_

Your shoe size: \_\_\_\_\_\_\_\_\_\_

How long is your commute to campus (on average in minutes): \_\_\_\_\_\_\_\_\_\_\_\_\_

Are you a dog or a cat person? Dog\_\_\_\_ Cat\_\_\_\_ Both\_\_\_\_\_ Neither\_\_\_\_\_

Coffee or tea? Coffee\_\_\_\_\_\_ Tea\_\_\_\_\_\_ Both\_\_\_\_\_ Neither\_\_\_\_\_\_

Born in Colorado? Yes\_\_\_ No\_\_\_

How many years have you lived in Colorado? \_\_\_\_\_\_\_\_\_\_

Pick a number between 1 and 100 (inclusive) \_\_\_\_\_\_\_\_\_\_

Day (not date) of birth (i.e., 23) \_\_\_\_\_\_\_

How many brothers and sisters do you have? \_\_\_\_\_\_\_\_\_\_

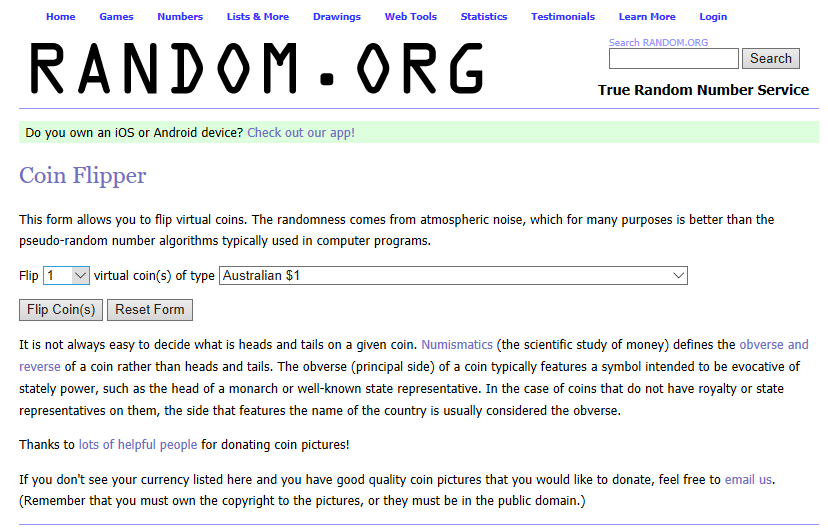
Pick a number between 1 and 10 (inclusive) \_\_\_\_\_\_\_\_\_

Have you taken a statistics class before? Yes\_\_\_\_\_ No\_\_\_\_\_

**Generating Random Samples (enter results in Week01 Excel file provided)**

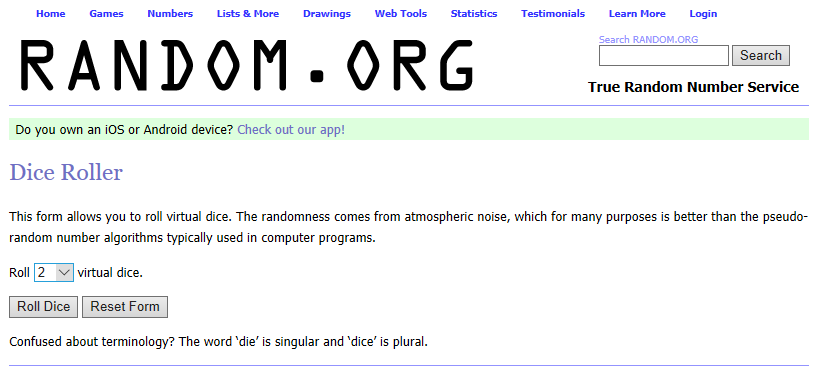
You will generate some random samples using the web site www.random.org. We will use the data as a demonstration in class on Wednesday when we talk about sampling. Keep your results as we may use them for future examples or assignments.

From the “Games” menu, choose “Coin Flipper”. You will roll 1 coin ten times and record if the result was heads or not (enter a “1” in the table of the excel file if you tossed a head and “2” if it is a tail; I entered a “0” in all data cells). This procedure will be demonstrated in class.

Now do two coins. (enter a 1 if they are both heads, 2 if one is a head and one is a tail, and 3 if they are both tails) Record the numbers in the excel file.

From the “Games” menu, choose “Dice roller”. You will roll 1 dice 20 times and record the total number of 1, 2, 3, 4, 5, or 6 number rolls you had. Next, repeat the procedure using 2 dice for 20 rolls. Record the dice exactly as rolled in the excel file. As you will see in the excel file, you need to count if the roll was a 2/3 or a 3/2 separately.



**Random Sampling**

**Proportions of colors of regular M&Ms**

Believe it or not, the proportions of colors of M&M’s are fixed at each production run. The different colors are mixed together before packaging. Each bag of M&Ms represents a random sample of M&Ms by color.



Open your personal bag of milk chocolate M&Ms. DON’T EAT UNTIL DONE WITH ALL COUNTING. Count all M&Ms by color. Enter the numbers in the table in the Excel file.

Keep your numbers handy as we may use them in future homework or lectures.