

LARSON—MATH 255—CLASSROOM WORKSHEET 17
Recursion & Experiments.

1. (a) Start the Chrome browser.
(b) Go to `http://cocalc.com`
(c) Login using **your VCU email address** .
(d) Click on our class Project.
(e) Click “New”, then “Worksheets”, then call it **c17**.
(f) For each problem number, label it in the Sage cell where the work is. So for Problem 2, the first line of the cell should be **#Problem 2**.

Coin Flips & Data

2. Use `random()` to define a function `coin_flip()` which randomly returns the string “H” (for heads) half the time and **returns** the string “T” (for tails) half the time. Try it a few times; your results will vary.
3. Run your coin flipping program 100 times and collect data. A random coin flipping program should come up heads about half the time. How many times do you get heads?
4. Now run your coin flipping program 1000 times and collect data. A random coin flipping program should come up heads about half the time. How many times do you get heads?

Work on your Test 1 Review

Your hard work *will* pay off.

Getting your classwork recorded

When you are done, before you leave class...

- (a) Click the “Make pdf” (Adobe symbol) icon and make a pdf of this worksheet. (If Cocalc hangs, click the printer icon, then “Open”, then print or make a pdf using your browser).
- (b) Send me an email with an informative header like “Math 255 - c17 worksheet attached” (so that it will be properly recorded).
- (c) Remember to attach today’s classroom worksheet!