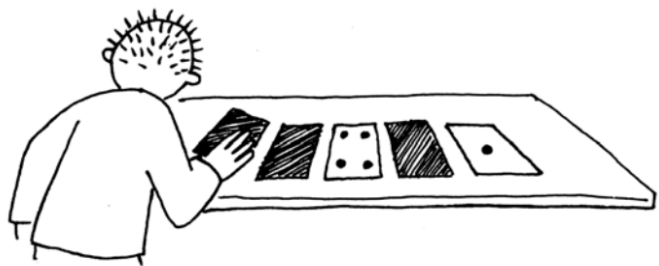


# Data Representation Lab

## Scavenger Hunt

Time to practice binary! Each student has picked a number and represented it using binary cards on his/her table. First, write your number down. When you are done, show it to a mentor to check that you wrote the binary correctly.

NOTE: Binary is the base-2 notation you learned in class today with 0s and 1s. Decimal is the standard notation you usually use. When converting from the index cards to binary notation, recall that face down cards are 0 and face up cards are 1. For example, this number,



when written in binary, is 00101, and when written in decimal, is 5.

Your Number in Binary	Your Number in Decimal

Try to find as many numbers that satisfy the below rules. For each number you find, write the name of the student who made that number (ask them if you don't know). Each number can only be counted once.

Scavenger Hunt Rule	Binary Number	Decimal Number	Student Name
Find an even number.			
Find a number with three face-down cards.			
Find a multiple of 5.			
Find the largest number in the class.			
Find a number less than 16.			
Find a multiple of 4.			
Find an odd number.			