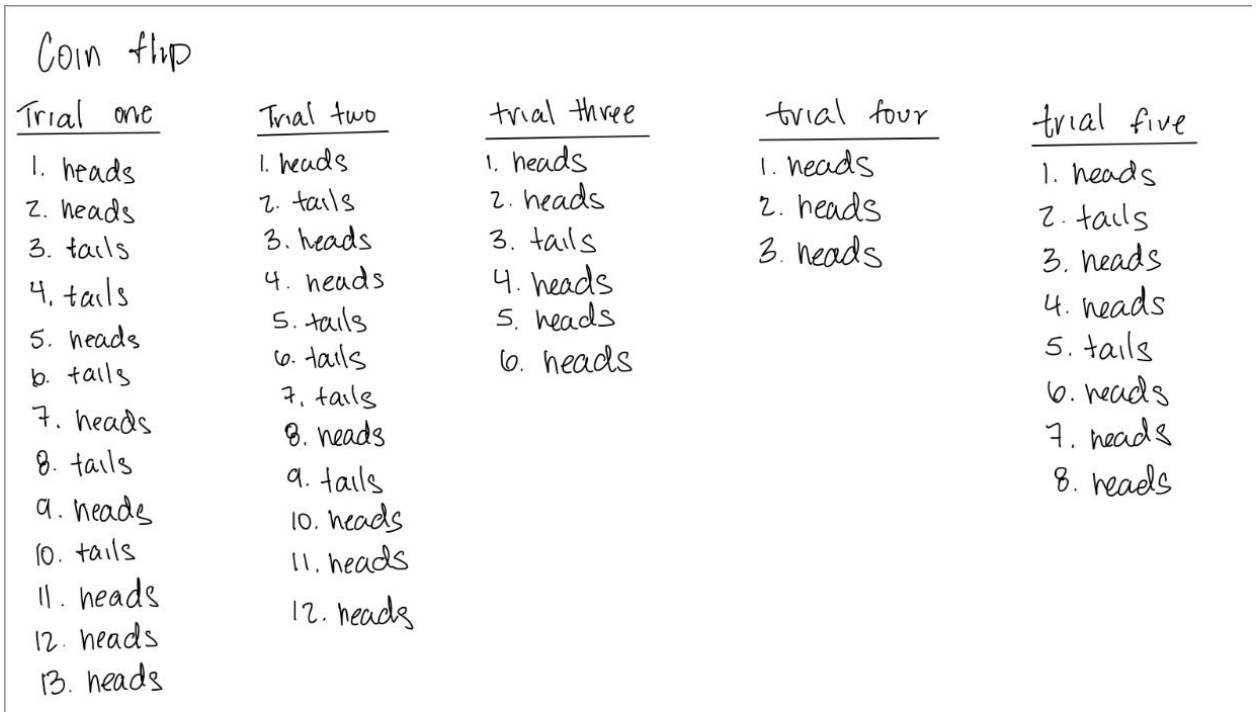
SCRIBBLE

Flip a coin until you get 3 heads in a row. How many flips did it take? 13

Repeat the above trial 4 or 5 times and record the following
The most flips it took to get 3 heads in a row: 13
The fewest flips it took to get 3 heads in a row: 3



The average number of flips we'd expect to need in order to get 12 heads in a row is 4096 flips. Our reasoning is that an unbiased coin would have a 50% chance of flipping heads and a 50% chance of flipping tails. The probability of flipping heads 12 times in a row is (0.5)^12. Using the expected value formula gives us (1/probability of success) = average number of coin flips needed which equals (1/(0.5)^12) = 4096.