Math 119 Name: _____

PROBABILITY

INVESTIGATING RANDOMNESS: Real or Fake? (3 points extra credit!)

You will pick a card in class. Do **not** show your card to anyone else. Do **not** mark your group:

If you get a black card (club or spade):

> Flip a small coin (a penny or a dime) 100 times. After each flip, write an "H" when you get a head, and write a "T" when you get a tail. You could also use this website to flip coins for you: https://www.random.org/coins/

If you get a red card (heart or diamond):

> Flip a coin 100 times "in your head." After each flip, write an "H" when you get a head, and write a "T" when you get a tail. In other words, write a sequence of "H"s and "T"s that you think "looks random," assuming that you're flipping a fair coin (equally likely to come up heads as tails).

Bring this to class!

Tosses 1-10	___	___	___	___	___	___	___	___	___	___
Tosses 11-20	___	___	___	___	___	___	___	___	___	___
Tosses 21-30	___	___	___	___	___	___	___	___	___	___
Tosses 31-40	___	___	___	___	___	___	___	___	___	___
Tosses 41-50	___	___	___	___	___	___	___	___	___	___
Tosses 51-60	___	___	___	___	___	___	___	___	___	___
Tosses 61-70	___	___	___	___	___	___	___	___	___	___
Tosses 71-80	___	___	___	___	___	___	___	___	___	___
Tosses 81-90	___	___	___	___	___	___	___	___	___	___
Tosses 91-100	___	___	___	___	___	___	___	___	___	___