Names: _____

Period: _____

Coin Toss Lab

Instructions

Working in groups of two, toss a coin 50 times. Record the results of each toss. Answer the questions at the bottom of the page. Once everyone has answered questions about their data, we will compile results from the whole class to see how larger numbers affect probability.

Toss Number and Result	Toss Number and Result
1 _____	26 _____
2 _____	27 _____
3 _____	28 _____
4 _____	29 _____
5 _____	30 _____
6 _____	31 _____
7 _____	32 _____
8 _____	33 _____
9 _____	34 _____
10 _____	35 _____
11 _____	36 _____
12 _____	37 _____
13 _____	38 _____
14 _____	39 _____
15 _____	40 _____
16 _____	41 _____
17 _____	42 _____
18 _____	43 _____
19 _____	44 _____
20 _____	45 _____
21 _____	46 _____
22 _____	47 _____
23 _____	48 _____
24 _____	49 _____
25 _____	50 _____

Questions

Your Data-

1. Total number of tosses that landed on heads _____
2. Total number of tosses that landed on tails _____
3. Percent of heads _____
4. Percent of tails _____
5. What is the probability that toss number 51 will land on heads? _____

Class Data-

6. Total number of tosses that landed on heads _____
7. Total number of tosses that landed on tails _____
8. Percent of heads _____
9. Percent of tails _____
10. What is the probability that the next toss will land on heads? _____
11. Is a coin toss an independent event? Why / Why not? _____

_____

_____

Part 2- Applying the Concept

Instructions

Using a Sharpie, label your coin with sides "T" and "t." Toss the coin twice per set. Record the first result on the first line and the second result on the second line. Once you have 25 sets of tosses, answer the questions below.

Set Number and Results			Set Number and Results		
1	_____	_____	14	_____	_____
2	_____	_____	15	_____	_____
3	_____	_____	16	_____	_____
4	_____	_____	17	_____	_____
5	_____	_____	18	_____	_____
6	_____	_____	19	_____	_____
7	_____	_____	20	_____	_____
8	_____	_____	21	_____	_____
9	_____	_____	22	_____	_____
10	_____	_____	23	_____	_____
11	_____	_____	24	_____	_____
12	_____	_____	25	_____	_____
13	_____	_____			

Number of T T combinations _____ T t combinations _____

t t combinations _____

Based on those numbers…

How many tall plants were there? _____ How many short plants? _____

Ratio _____

Class Data

Tall plants _____ Short plants _____ Ratio _____