

### Activity 13

Name \_\_\_\_\_

The Game of Ultimate Frisbee starts with a “kick off”. To determine which team kicks off, the two team captains flip two Frisbees simultaneously, and the visiting team captain calls “same” or “different”. If the two discs land both face up, or both face down, then they are the same. If one lands face up and the other face down, then they are different.

1. In your group, flip the two discs 30 times. For each toss, record an *S* for same or a *D* for different. Remember, if the discs end up the same, then both are face up or face down. If they are different, then one is up and the other is down.

FLIPS OF THE FRISBEES

1.	6.	11.	16.	21.	26.
2.	7.	12.	17.	22.	27.
3.	8.	13.	18.	23.	28.
4.	9.	14.	19.	24.	29.
5.	10.	15.	20.	25.	30.

2. Calculate the proportion of times the discs end up the same.

3. Calculate a 95% confidence interval for the sample proportion in number 2.

4. Write the null and alternative hypotheses.

5. Is there evidence to conclude the true proportion is significantly different than .5? Explain.