

## A.1 Activity 1 Worksheet (Tossing Plain KISSES)

*This worksheet accompanies the article found at <http://www.amstat.org/publications/jse/v10n3/haller.html>*

### Question:

What percent of the time will a plain HERSHEY'S KISS chocolate land on its flat base if it is spilled from a cup?

initial guess = \_\_\_\_\_

During this activity, we will conduct an investigation to help us determine the chances of a plain HERSHEY'S KISS landing on its base when spilled from a cup.

Your cup contains 10 plain candy KISSES. The investigation is as follows:

- Gently shake the cup twice to help mix up the candies.
- Tip the cup so that the bottom of the rim is approximately 1-2 inches from the table and spill all of the candies onto the table.
- Count the number of candies that land on their base.
- Return the candies to the cup and repeat until you have spilled the candies 10 times.

Use the table below to record your data.

Find the total number of candies that landed on their base.

Toss Number	Number of KISSES Landing on Base
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
Total	

Make a new guess as to the percent of the time that a plain HERSHEY'S KISS will land on its flat base when spilled from a cup.

updated guess = \_\_\_\_\_

How can you become more confident in your guess?