**Straw Drop (Buffon’s Needle)**

1. Observe that the distance between the evenly spaced parallel lines on the floor are the same as the length of the straw. If a straw is dropped randomly, what do you think is the probability that it lands on one of the lines?

Guess: \_\_\_\_\_\_\_

1. Drop the straw on the floor. Record whether or not the straw lands on a line. Do this a total of 10 times.

The straw landed on a line \_\_\_\_\_ out of 10 times or \_\_\_\_\_\_ of the time.

1. New Guess: \_\_\_\_\_\_\_
2. Drop the straw 34 more times (44 total). Record results.

The straw landed on a line \_\_\_\_\_ out of 44 times or \_\_\_\_\_\_ of the time.

1. Class total for the observed probability: \_\_\_\_\_\_\_
2. Divide 2 by the observed probability. What is the quotient (as a decimal)?

**Tally Chart:**

|  |  |
| --- | --- |
| Lands on a Line | Doesn’t Land on a Line |
|  |  |