

Name: \_\_\_\_\_

## Lecture 32, class activity. Combinatorial Probability.

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1. Let us consider the Bernoulli trials with  $n = 2$ . Assume that the probability of a success is  $p$ , and failure is  $q = 1 - p$ .

Compute the probability of zero, one, and two successes.

2. For which  $p$  is zero successes the most likely outcome?

3. For which  $p$  is two successes the most likely outcome?

4. For which  $p$  is the most likely outcome exactly one success?