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The probability of a ball landing in bucket k is the number of paths to the bucket multiplied by the probability of each path: $\sum_{j=0}^k \binom{N-1}{j} p^j (1-p)^{N-1-j}$

Page 5 Clicker Question #1 For a 7-row plinko, with 8 buckets labeled 0 to 7, what is the probability of a ball landing in bucket 1?

[Plinko Probabilities, Part 4 Random Variables and the Expected Value](#)
goldenberglab.com : courses : biol3550 : courseMaterial : slides

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The Mathematics of the Board At each level, the penny will be "knocked" either to the left or to the right, each with a 50/50 probability. $p(\text{left})^{n_1} p(\text{right})^{n_2}$. But there will be many ways of taking n_1 lefts and n_2 rights over N levels. If all N choices are left, for instance, there is only one way.

[The Probability \("Plinko"\) Board](#)
salt.uaa.alaska.edu : kath : kti : plinko

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The Martingale system is a methodology to amplify the chance of recovering from losing streaks that can be used in investing or gambling. It involves doubling up on losing bets