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[Plinko Probabilities, Part 4 Random Variables and the Expected Value](#)

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[The Probability \("Plinko"\) Board](#)

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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: $p(k) = \frac{n!}{k!(n-k)!}$

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?

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.

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