

# betmaster casino

The probability of a ball landing in bucket  $k$  is the number of paths to the bucket multiplied by the probability of each path:  $p(k) = \frac{n!}{k!(n-k)!} \cdot \left(\frac{1}{2}\right)^n$

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

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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.

a data-ved="2ahUKEwj1zpuG-MuDAXRJEQIHcrRBlcQFnoECAEQDQ" href="{href}">The Probability ("Plinko") Board

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