

# cbet and kbet

&lt;p&gt;d losses. To deduct your losses, you must be able to provide receipts, tickets or other records that show the amount of the loss.

Whereas the probability of an event occurring is  $P$ , the probability of it not occurring is  $1 - P$ . For example, if the probability of a coin landing heads is  $0.5$ , the probability of it landing tails is  $1 - 0.5 = 0.5$ .

The probability of two independent events both occurring is the product of their individual probabilities. For example, if the probability of a coin landing heads is  $0.5$  and the probability of a die rolling a six is  $1/6$ , the probability of both occurring is  $0.5 \times 1/6 = 1/12$ .

The probability of either of two independent events occurring is the sum of their individual probabilities. For example, if the probability of a coin landing heads is  $0.5$  and the probability of a die rolling a six is  $1/6$ , the probability of either occurring is  $0.5 + 1/6 = 2/3$ .

The probability of an event occurring at least once in  $n$  independent trials is  $1 - (1 - P)^n$ . For example, if the probability of a coin landing heads is  $0.5$ , the probability of it landing heads at least once in 10 trials is  $1 - (1 - 0.5)^{10} = 1 - 0.5^{10} \approx 0.999$ .

The probability of an event occurring exactly  $k$  times in  $n$  independent trials is  $\binom{n}{k} P^k (1 - P)^{n - k}$ . For example, if the probability of a coin landing heads is  $0.5$ , the probability of it landing heads exactly 5 times in 10 trials is  $\binom{10}{5} 0.5^5 (1 - 0.5)^{10 - 5} = 252 \times 0.5^{10} \approx 0.246$ .

The probability of an event occurring at least  $k$  times in  $n$  independent trials is  $1 - \sum_{i=0}^{k-1} \binom{n}{i} P^i (1 - P)^{n - i}$ . For example, if the probability of a coin landing heads is  $0.5$ , the probability of it landing heads at least 5 times in 10 trials is  $1 - \sum_{i=0}^4 \binom{10}{i} 0.5^i (1 - 0.5)^{10 - i} \approx 0.978$ .

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