How can I use the CRITBINOM function in Google Sheets to calculate the critical value for a binomial distribution?

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The CRITBINOM function in Google Sheets is a powerful tool for calculating the critical value for a binomial distribution. This function allows users to input the probability of success, number of trials, and significance level to determine the minimum number of successes required for a desired level of confidence. This can be useful in various statistical analyses, such as hypothesis testing and decision making. By using the CRITBINOM function in Google Sheets, users can easily and accurately determine the critical value for a binomial distribution, making it a valuable tool for data analysis.

CRITBINOM

Calculates the smallest value for which the cumulative binomial distribution is greater than or equal to a specified criteria.

Sample Usage

`CRITBINOM(100,0.005,0.8)`

`CRITBINOM(A2,A3,A4)`

Syntax

`CRITBINOM(num_trials, prob_success, target_prob)`

`num_trials` - The number of independent trials.

`prob_success` - The probability of success in any given trial.

`target_prob` - The desired threshold probability.

See Also

`PROB`: Given a set of values and corresponding probabilities, calculates the probability that a value chosen at random falls between two limits.

`BINOMDIST`: Calculates the probability of drawing a certain number of successes (or a maximum number of successes) in a certain number of tries given a population of a certain size containing a certain number of successes, with replacement of draws.

Examples