## **Binomial Distribution**

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## "Understanding Statistics in the Behavioral Sciences" R. R. Pagano

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- a probability distribution that results when the following five conditions are met
  - there are a series of N trials
  - 2 on each trial, there are only two possible outcomes
  - In each trial, the two possible outcomes are mutually exclusive
  - there is independece between the outcomes of each trial
  - the probability of each possible outcome on any trial stays the same from trial to trial
  - when these requirements are met, the binomial distribution tells us each possible outcome of the N trials and the probability of getting each of these outcomes.



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