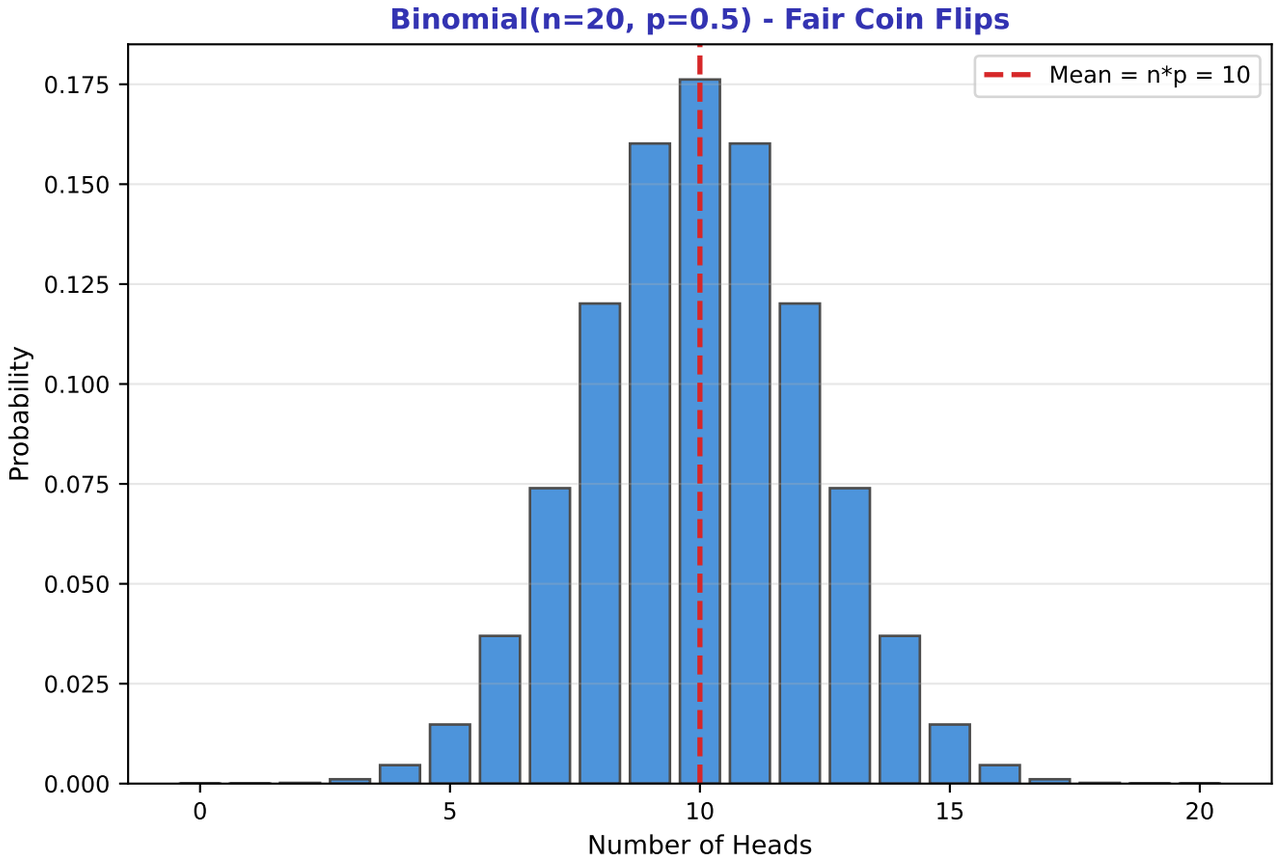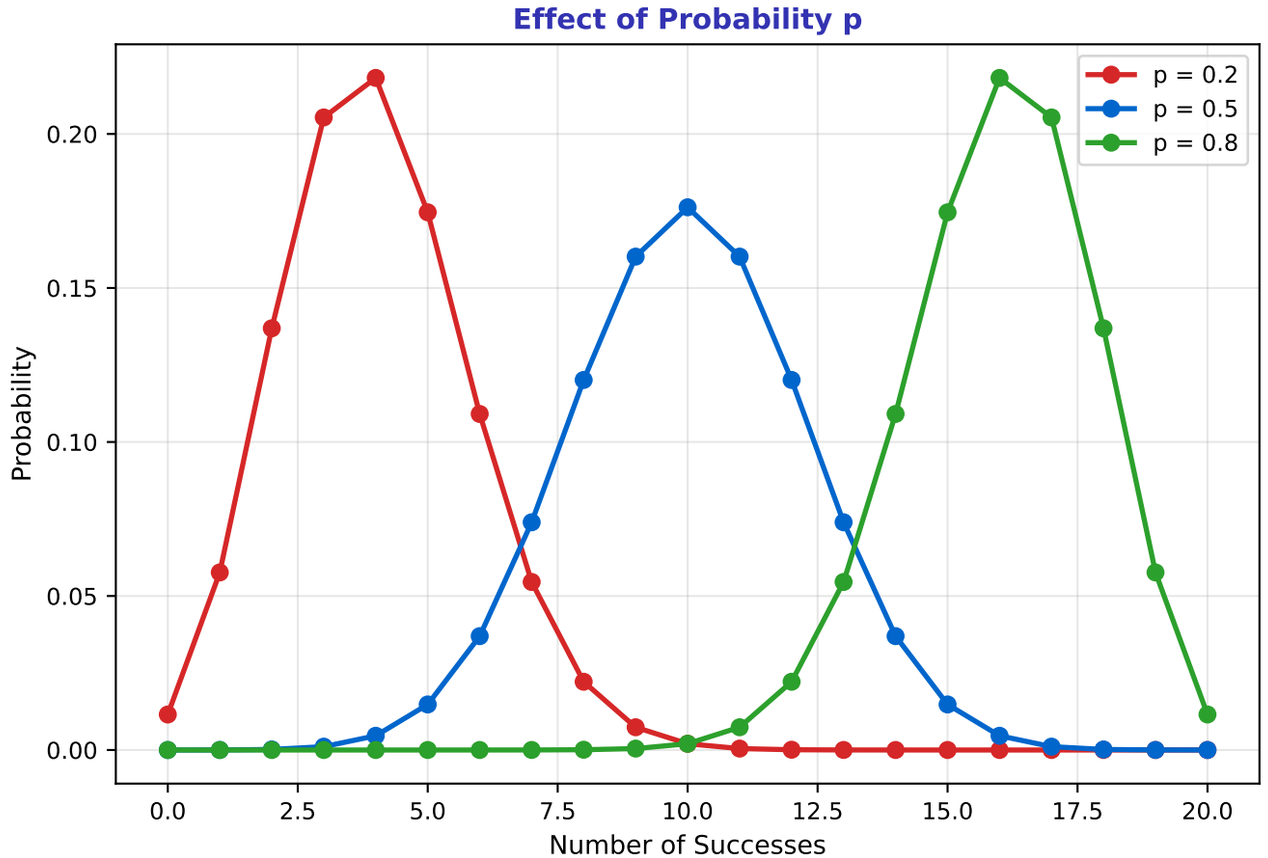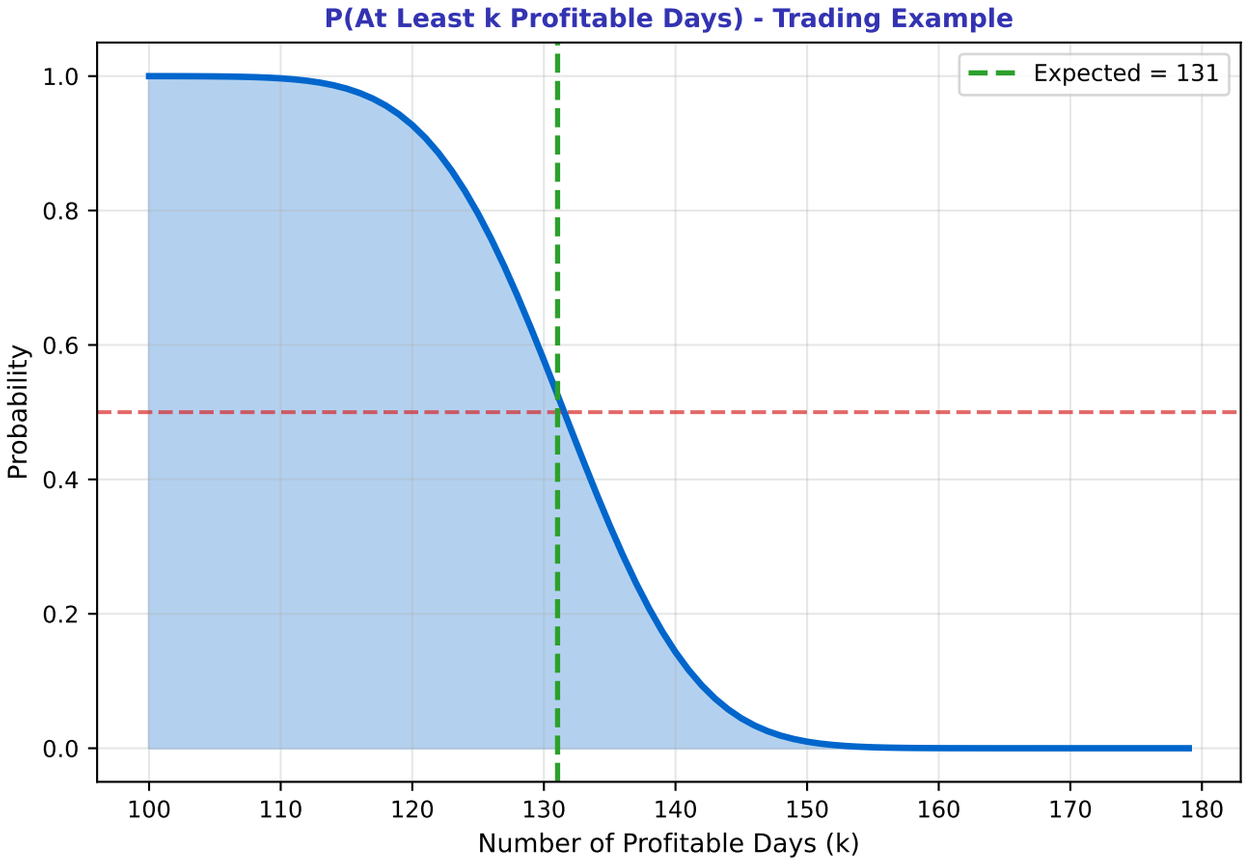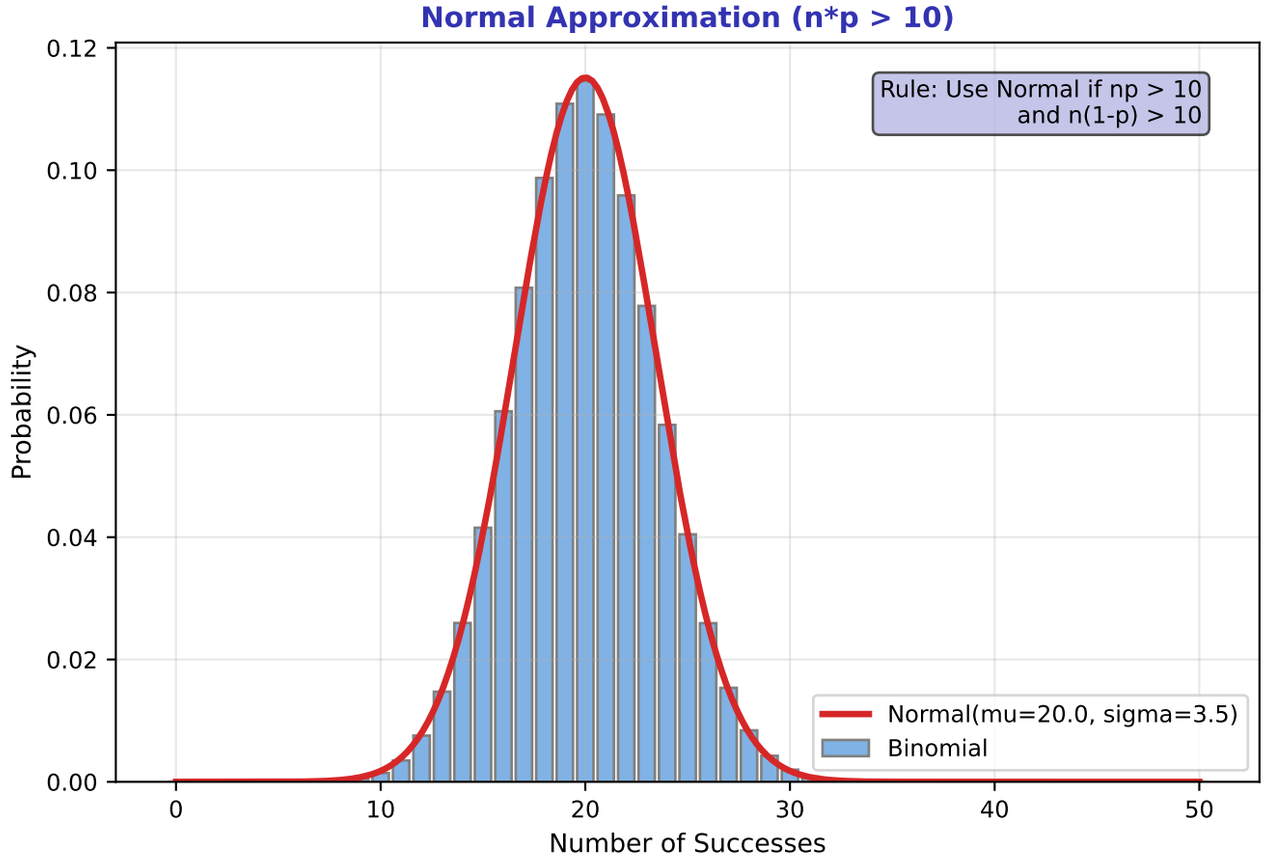The Binomial Distribution