


1.3.8 Let X and Y be independent binomial random variables having parameters (N, p) and (M, p) , respectively. Let $Z = X + Y$.

- (a) Argue that Z has a binomial distribution with parameters $(N + M, p)$ by writing X and Y as appropriate sums of Bernoulli random variables.
- (b) Validate the result in (a) by evaluating the necessary convolution.

$$c(n) = \begin{cases} \sum_{k=0}^n \binom{N}{k} p^k (1-p)^{N-k} \binom{M}{n-k} p^{n-k} (1-p)^{M-n+k} & 0 \leq n \leq M \\ \sum_{k=n-M}^n \binom{N}{k} p^k (1-p)^{N-k} \binom{M}{n-k} p^{n-k} (1-p)^{M-n+k} & M+1 \leq n \leq N \\ \sum_{k=n-M}^N \binom{N}{k} p^k (1-p)^{N-k} \binom{M}{n-k} p^{n-k} (1-p)^{M-n+k} & N+1 \leq n \leq M+N \end{cases}$$

$$c(n) = p^n (1-p)^{N+M-n} \sum_{k=0}^n \binom{N}{k} \binom{M}{n-k}$$

where $\ell = \begin{cases} 0 & 0 \leq n \leq M \\ n-M & M+1 \leq n \leq N+M \end{cases}$



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web abstract antiresorptive medications such as bisphosphonates and denosumab are an important class of medication used to treat a wide range of diseases from osteoporosis to multiple myeloma unfortunately they are also associated with a rare but devastating side effect medication related osteonecrosis of the jaw mronj

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web apr 20 2022 medication related osteonecrosis of the jaw definition mronj is defined as exposed bone or bone that can be probed through an intraoral or extraoral fistula in the maxillofacial area that has persisted for longer than 8 weeks in a patient who has been treated with antiresorptive or antiangiogenic medication without a history of radiation

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