

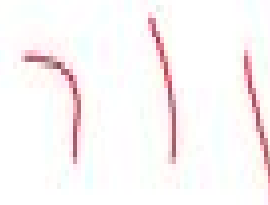
1.3.8 Let  $X$  and  $Y$  be independent binomial random variables having parameters  $(N, p)$  and  $(M, p)$ , respectively. Let  $Z = X + Y$ .

- (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.

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

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

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



# Advanced Probability Problems And Solutions

**Edward Eggleston**



## **Advanced Probability Problems And Solutions:**

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