Mathematical Statistics Solution to Homework 3

3.8

(a)

Let X be the number of people who go to movie theater one. Since customers choose randomly, then $X \sim Bin(1000, \frac{1}{2})$.

$$\Pr(X > N) = \sum_{x=N+1}^{1000} \binom{1000}{x} \left(\frac{1}{2}\right)^{1000} < 0.01$$

(b)

Let $\mu = 1000 \times \frac{1}{2} = 500$, $\sigma^2 = 1000 \times \frac{1}{4} = 250$ and $Z \sim N(0, 1)$.

$$\Pr(X > N) \approx \Pr(Z > \frac{N - 500}{\sqrt{250}}) < 0.01$$

$$\Rightarrow \quad \frac{N - 500}{\sqrt{250}} > 2.3263 \quad \Rightarrow \quad N > 536.78$$

Each theater should have at least 537 seats.

3.13

$$E(X_T) = \sum_{x=1}^{\infty} x \Pr(X_T = x) = \frac{1}{\Pr(X > 0)} \sum_{x=0}^{\infty} x \Pr(X = x) = \frac{E(X)}{\Pr(X > 0)} \tag{1}$$

$$E(X_T^2) = \sum_{x=1}^{\infty} x^2 \Pr(X_T = x) = \frac{1}{\Pr(X > 0)} \sum_{x=0}^{\infty} x^2 \Pr(X = x) = \frac{E(X^2)}{\Pr(X > 0)}$$

$$Var(X_T) = \frac{E(X^2)}{\Pr(X > 0)} - \left(\frac{E(X)}{\Pr(X > 0)}\right)^2 \tag{2}$$

(a)

For $X \sim Poisson(\lambda)$, we have

$$\Pr(X > 0) = 1 - \Pr(X = 0) = 1 - \exp(-\lambda),$$

$E(X) = \lambda$ and $E(X^2) = \lambda + \lambda^2$, then by (1) and (2),

$$E(X_T) = \frac{\lambda}{1 - \exp(-\lambda)},$$

$$Var(X_T) = \frac{\lambda + \lambda^2}{1 - \exp(-\lambda)} - \left(\frac{\lambda}{1 - \exp(-\lambda)}\right)^2.$$

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