## Worksheet 15

- **1.** Find the MME for  $\widehat{p}$  when  $X \sim Bin(1, p)$ .
- **2.** Find the MME for  $\widehat{\mu}$  when  $X \sim N(\mu, 1)$ .
- **3.** Let  $X \sim U(a,b)$ , the continuous uniform distribution between a and b (a < b). Find the mean and variance of X.
  - **4.** Find the MMEs for  $\hat{a}$  and  $\hat{b}$  when  $X \sim U(a, b)$ .
  - **5.** Find the MMEs for  $\widehat{\mu}$  and  $\widehat{\sigma^2}$  when  $X \sim N(\mu, \sigma^2)$ .
  - **6.** Find the MMEs for  $\widehat{\alpha}$  and  $\widehat{\beta}$  when  $X \sim Gamma(\alpha, \beta)$ .