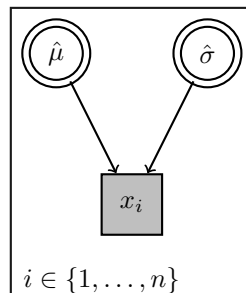


$$a = 50, b = 150$$

$$x_i \sim \text{Unif}(a, b)$$



$$\hat{\mu} = \frac{1}{n} \sum_{i=1}^n x_i$$

$$\hat{\sigma} = \frac{1}{n} \sum_{i=1}^n (x_i - \mu)^2$$

$$x_i \sim \text{Norm}(\hat{\mu}, \hat{\sigma})$$