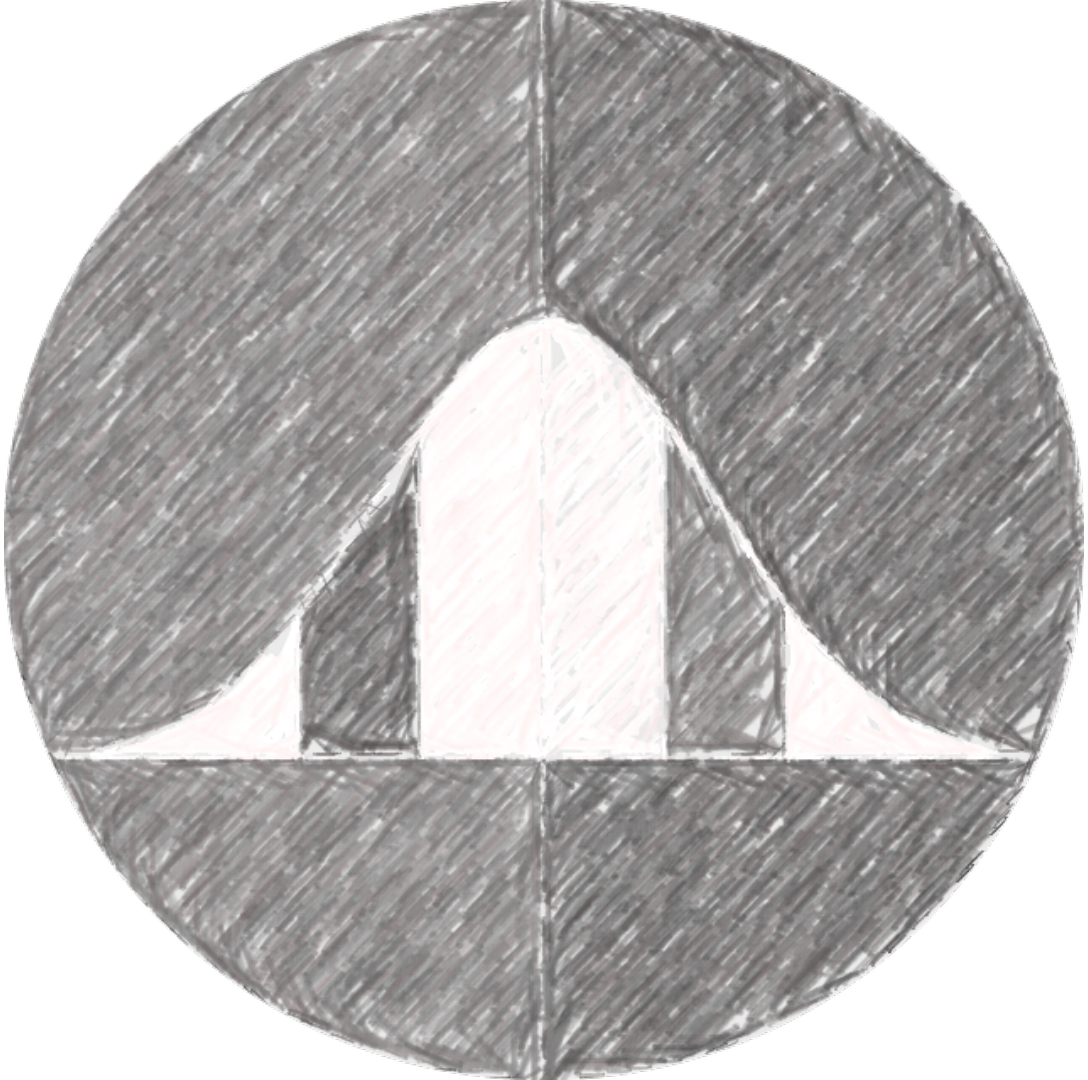
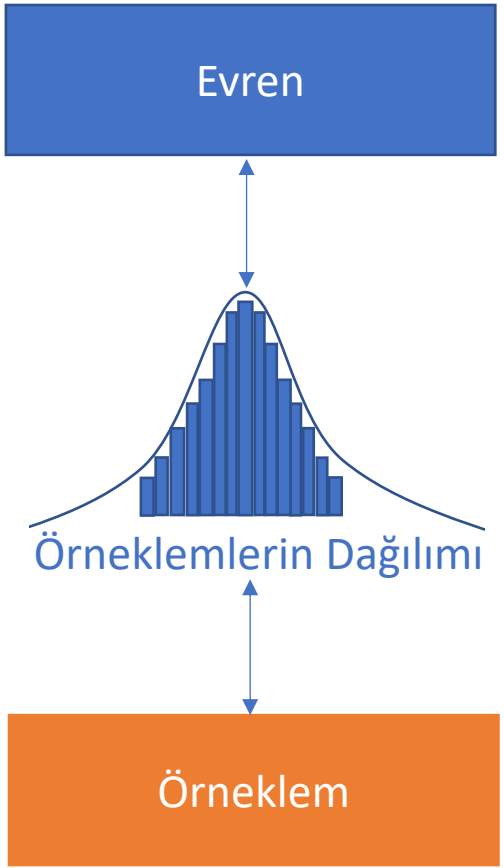
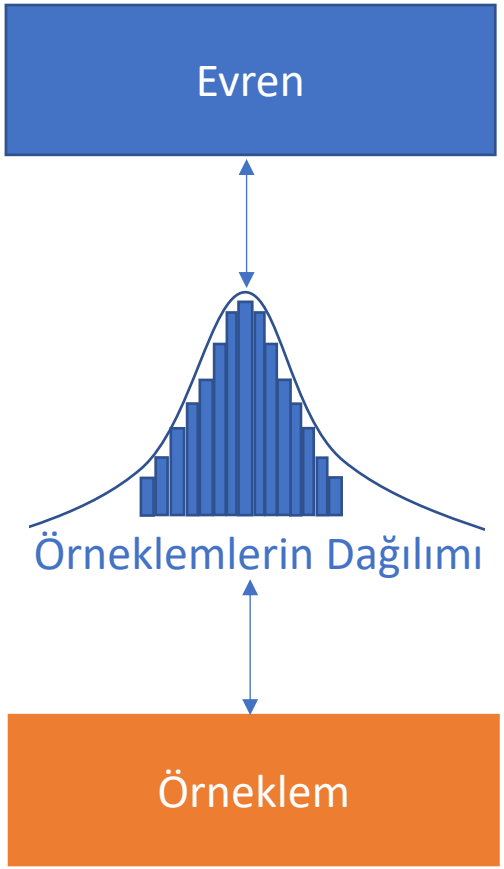


Örneklemlerin Dağılımı

Standart Hata

Merkezi Limit Teoremi



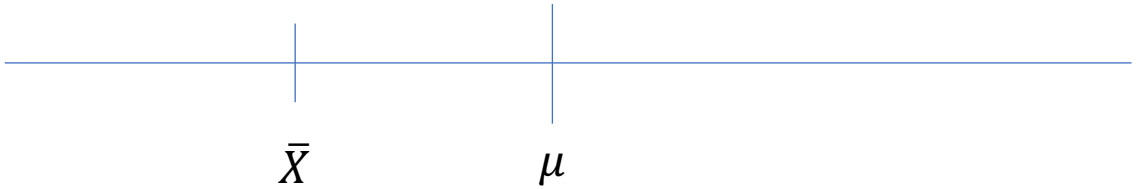


Gözlemsel, bilinmiyor

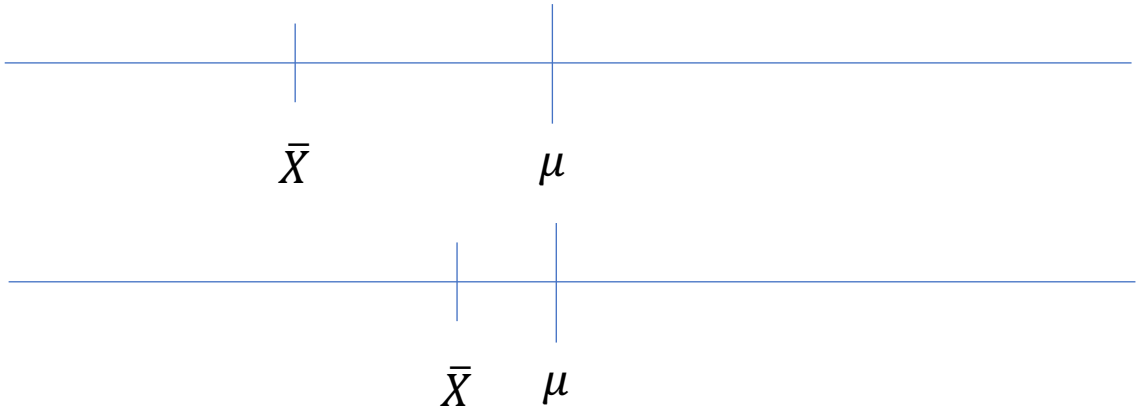
Gözlemsel değil (teorik), biliniyor

Gözlemsel, biliniyor

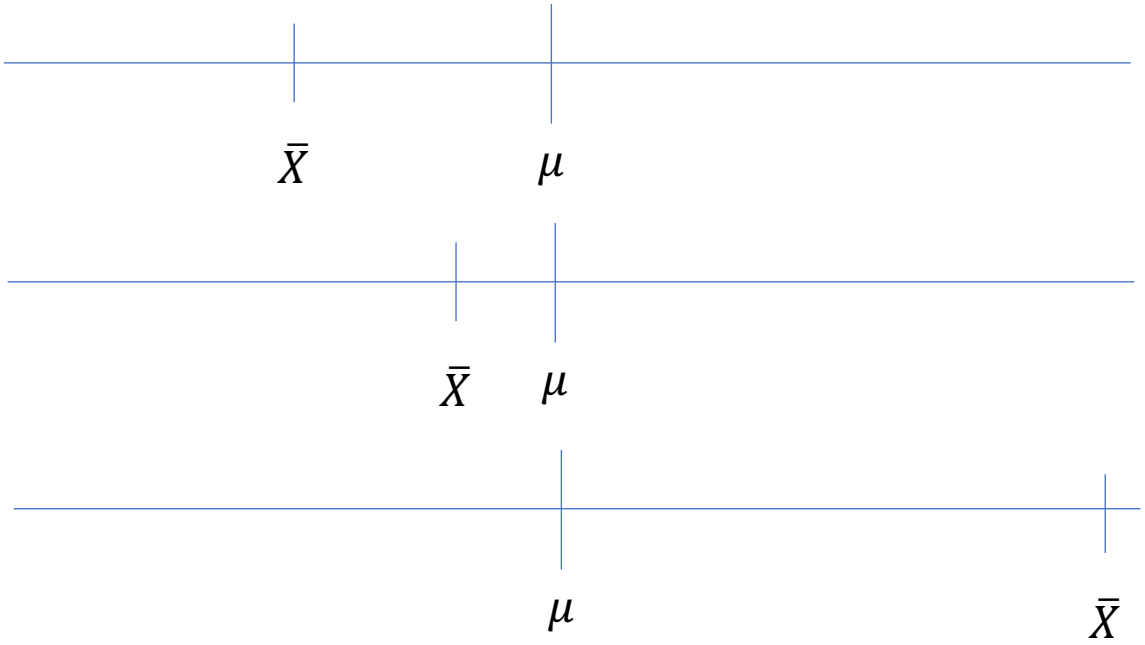
Örneklem “Hata”sı



Örneklem “Hata”sı

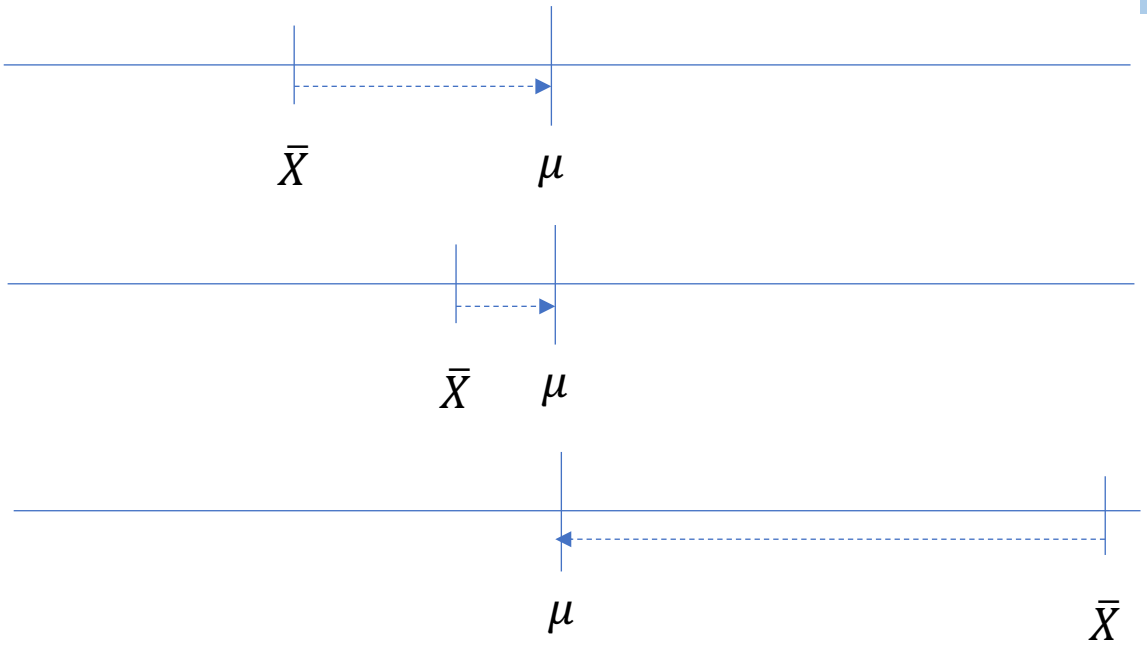


Örneklem “Hata”sı



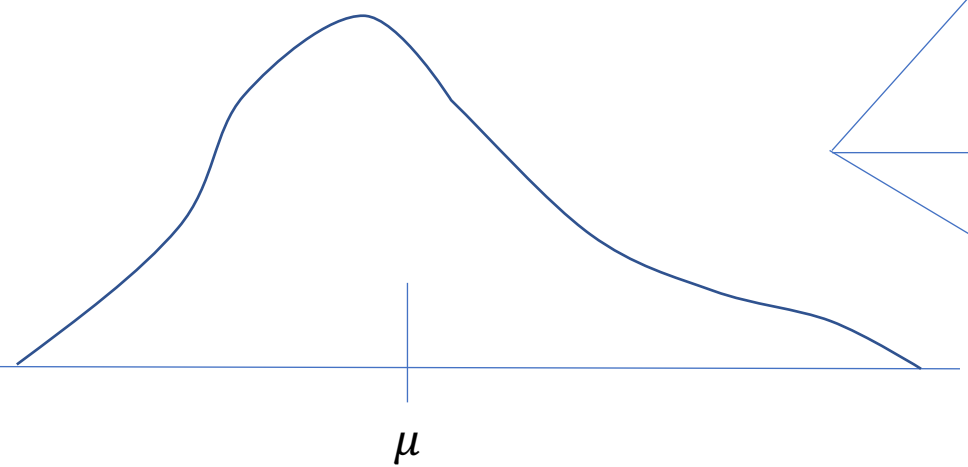
Örneklem "Hata"sı → Standart Hata

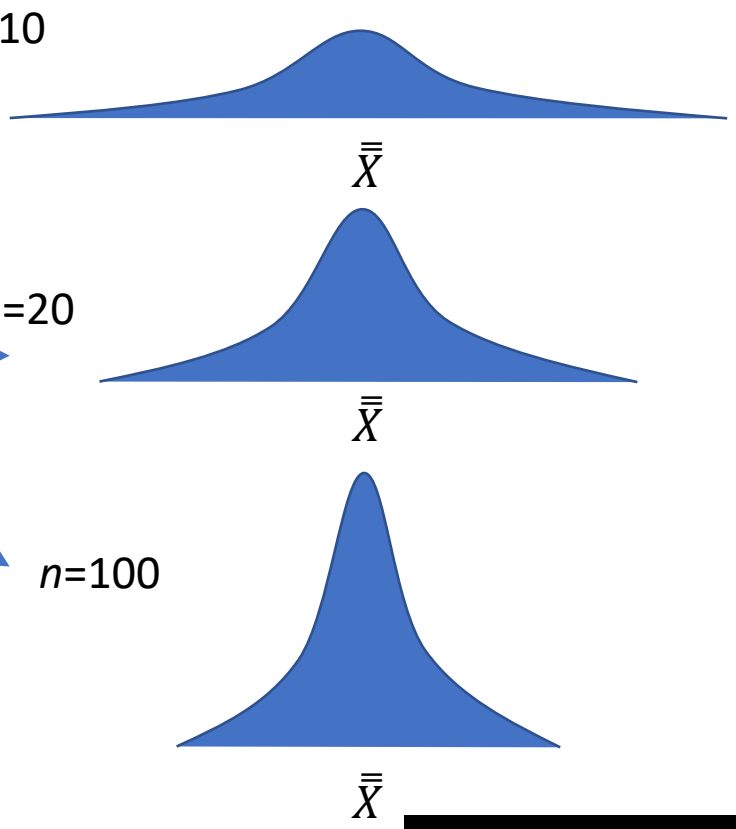
$$\bar{X} - \mu$$



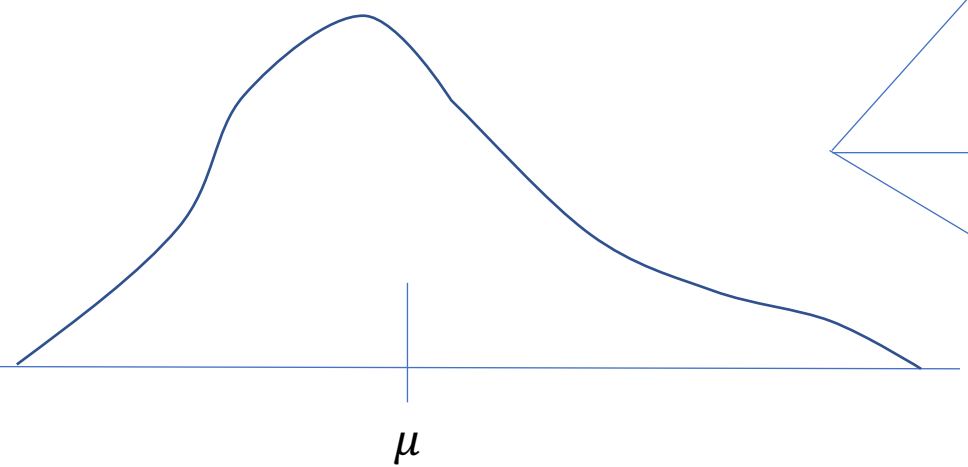
pedagojik

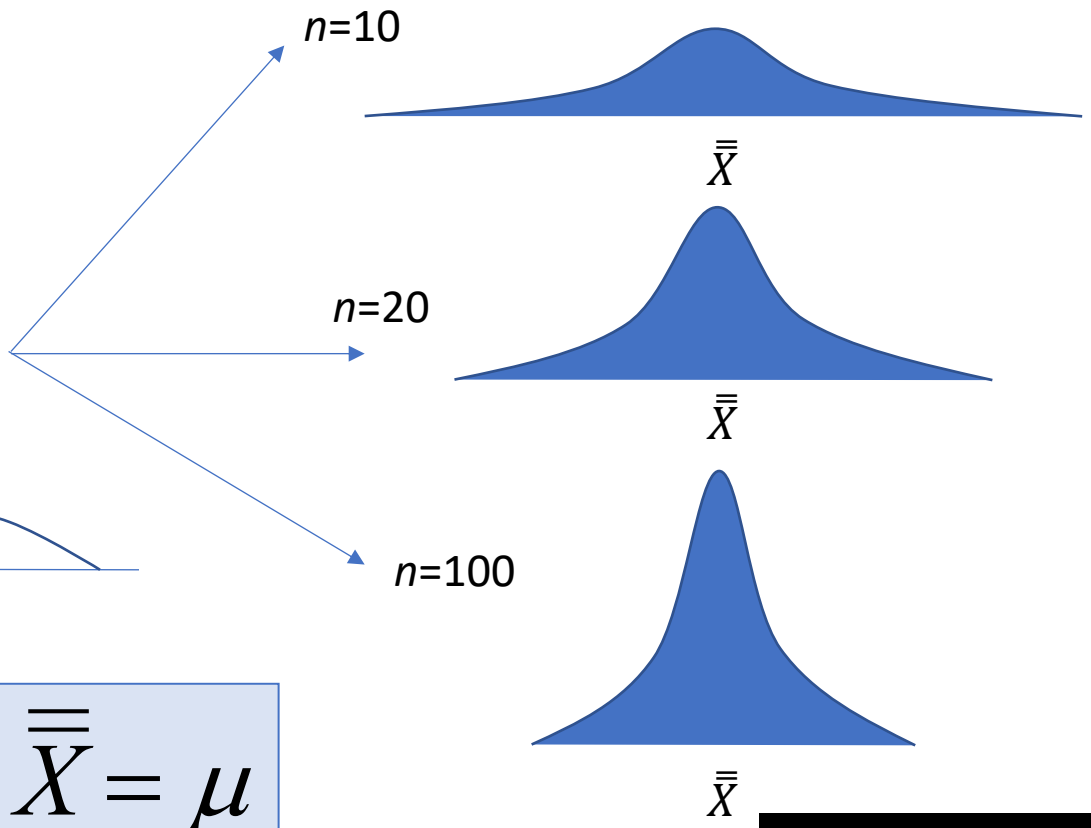
Standart Hata





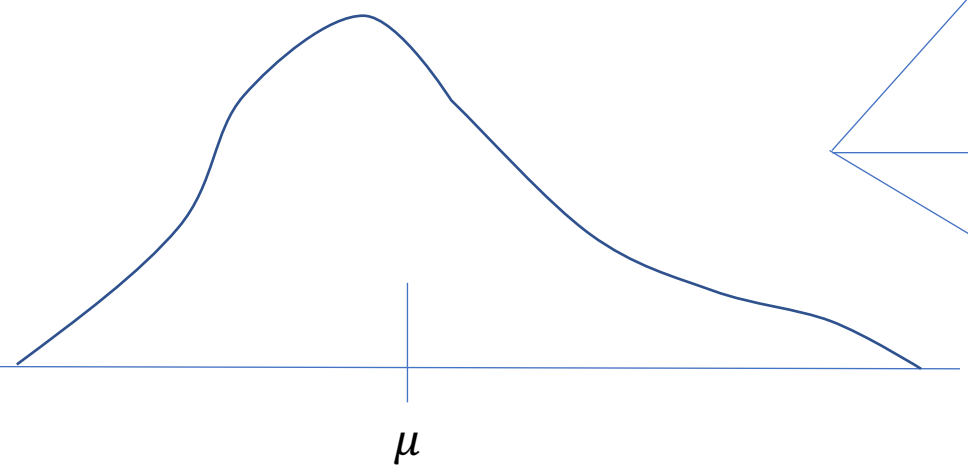
Standart Hata

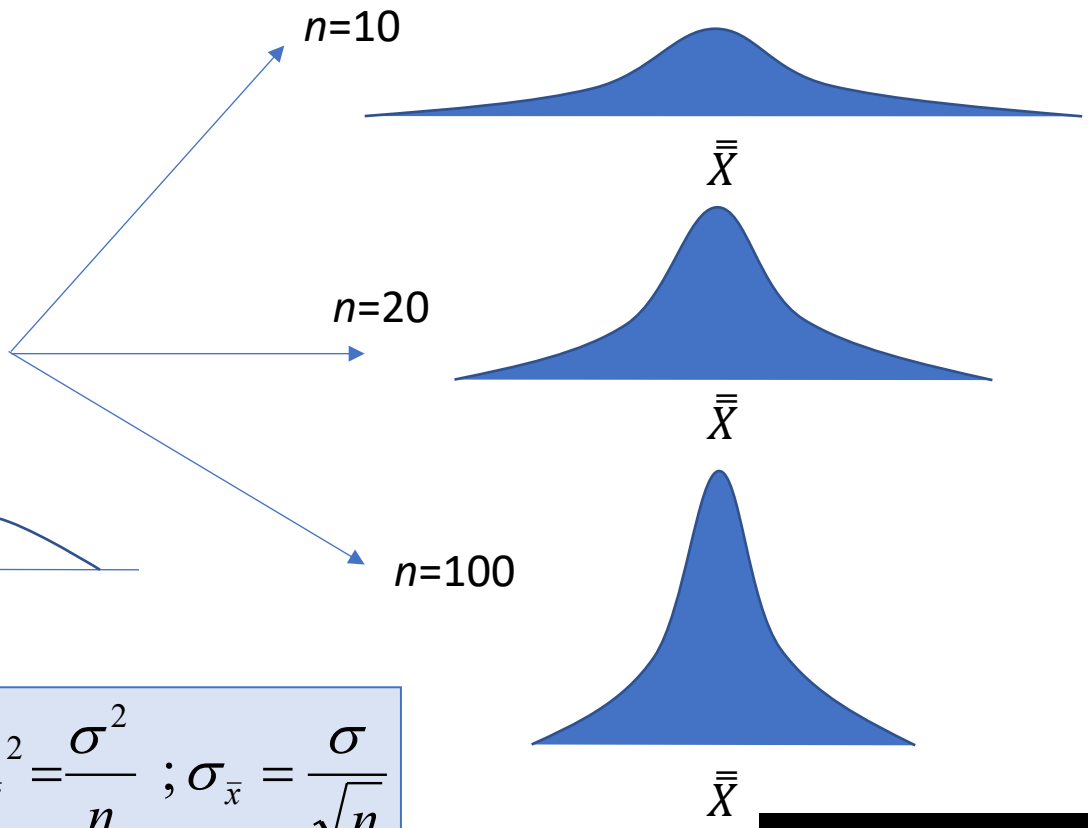




$$E(\bar{X}) = \bar{\bar{X}} = \mu$$

Standart Hata





$$E[(\bar{X}-\mu)^2]=\sigma_{\bar{x}}{}^2=\frac{\sigma^2}{n}\ ;\sigma_{\bar{x}}=\frac{\sigma}{\sqrt{n}}$$

Standart Hata

$$\sigma_{\bar{X}} = \frac{\sigma}{\sqrt{n}}$$

Merkezi Limit Teoremi

$$\sigma_{\bar{x}}^{\ 2} = \frac{\sigma^2}{n}$$

- Örneklem sayısı *n* arttığında örnekleme dağılımının varyansı azalacağından dağılım sivrileşir
- Dağılım daha fazla normal dağılıma yaklaşır.