

推估母體參數特性

→ 單一母體平均數區間估計
→ \bar{x} 抽樣分配

6.7

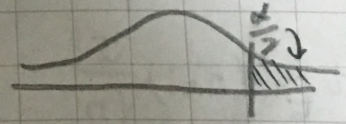
$$\bar{x} = 16.33$$

S 樣本的標準差 = 4.29, 樣本數 = 36 (大樣本
 σ 未知已 S 代替)

$$\textcircled{1} \quad 1 - \alpha = 0.95$$

$$\frac{\alpha}{2} = 0.025$$

$$z_{\frac{\alpha}{2}} = z_{0.025} = 1.96$$



$$\bar{x} \pm z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16.33 \pm 1.96 \frac{4.29}{\sqrt{36}} = 16.33 \pm 1.4$$

平均 time (14.93, 17.73) = PM_0

$$z_{\frac{\alpha}{2}} = -z_{\frac{\alpha}{2}}$$

②

$$1 - \alpha = 0.9 \quad \frac{\alpha}{2} = 0.05 \quad z_{\frac{\alpha}{2}} = z_{0.05} = 1.645$$

$$\bar{x} \pm z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16.33 \pm 1.645 \frac{4.29}{\sqrt{36}}$$

$$= 16.33 \pm 1.18 \quad (15.15, 17.51)$$