

(2)  $p$  未知，採用  $p = 0.5$  時， $n = \left(\frac{z_{\alpha}}{e}\right)^2 \times (0.5)(0.5)$

(3)  $p$  未知，採用  $\hat{p}$  時， $n = \left(\frac{z_{\alpha}}{e}\right)^2 \times \hat{p}(1-\hat{p})$

### 本章習題

1. 請利用  $t$  分配、 $\chi^2$  分配與  $F$  分配表，回答下列各小題：

(1)  $t_{0.025}(10) = ?$  2.228

(2)  $t_{0.95}(8) = ?$

(3)  $\chi^2_{0.05}(12) = ?$

26.217, 求  $\alpha = ?$

(1)  $t_{0.025}(10) = 2.228$

(2)  $t_{0.95}(8) = -t_{0.05}(8) = -1.86$

(3)  $\chi^2_{0.05}(12) = 21.03$

(4)  $\chi^2_{\alpha}(15) = 9.26 \Rightarrow \alpha = 0.95$

(5)  $\chi^2_{0.95}(10) = 3.94$

(6)  $F_{0.05}(5, 8) = 3.69$

(7)  $F_{0.95}(6, 7) = \frac{1}{F_{0.05}(6, 7)} = \frac{1}{3.87} = 0.258 \approx 0.26$

(8)  $F_{\alpha}(6, 6) = 4.28 \Rightarrow \alpha = 0.05$

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7. 某校生輔組老師欲研究學生在課餘時間兼差工作的情形，

45位有兼差，試求：