## Ch6 智題

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(1) 
$$\sigma = 3$$
,  $1 - \alpha = 0.95$ ,  $\alpha = 0.05$ ,  $\frac{\alpha}{2} = 0.025$ ,  $\frac{2}{2} = 0.025$ ,  $\frac{2}{2} = 0.025$ ,  $\frac{2}{2} = 0.025$ 

(2) 
$$f=2, 1-\alpha=0.9, \alpha=0.1, \frac{1}{2}=0.5, \frac{1}{2}=0.5$$
  

$$n=\left(\frac{1.645\times0.2}{0.03}\right)^{2}=120.29=124$$

$$T = 0.05, 1 - \alpha = 0.98, \alpha = 0.02, \frac{\alpha}{2} = 0.01, Z_{0.01} = 2.32), e = 0.02$$

$$n = \left(\frac{2.320}{0.02}\right)^{2} = 33.8 = 34$$

6. 
$$n=120$$
,  $\bar{\chi}=1250$ ,  $S=140$ ,  $1-\alpha=0.95$ ,  $\frac{\alpha}{\pi}=0.05$ ,  $Z_{0.05}=1.96$ 

$$1250\pm Z_{0.055}\frac{(40)}{\sqrt{120}}=1250\pm 25.05$$

$$2P(1224.95, 1275.05)$$

10,

$$(3) = 0.9, \frac{x}{2} = 0.05, \frac{x}{2} = 0.645$$

$$(85 - 18) \pm 1.645 \sqrt{\frac{154}{50} + \frac{146}{40}}$$

$$= 1 \pm 1.645 \times 2.59$$