

3/24 實習課題目

$$2. e = \frac{a}{\sqrt{n}} \times Z \frac{\alpha}{2}$$

$$(1) a = 3 \quad e = 4.5$$

$$\alpha = 1 - 0.95$$

$$h = \left(\frac{3}{0.5} \right)^2 \times 1.96^2 = 138.3$$

$$\approx 139$$

$$(2) a = 0.2 \quad e = 0.03 \quad 1 - \alpha = 0.9$$

$$h = \left(\frac{0.2}{0.03} \right)^2 \times 1.645^2$$

$$= 120.27 \div (2)$$

$$(3) a = 0.05 \quad e = 0.07 \quad 1 - \alpha = 0.98$$

$$h = \left(\frac{0.05}{0.02} \right)^2 \times 2.326^2$$

$$= 33.8 \approx 34$$

$$6. 1250 \pm Z_{0.025} \sqrt{\frac{140}{120}}$$

$$= 1250 \pm 25.05$$

$$\Rightarrow (1224.95, 1275.05)$$

$$10. (1) \mu_1 - \mu_2 = \bar{x} - \bar{y} = 85 - 78 = 7$$

$$(2) 7 \pm 1.645 \times \sqrt{\frac{154}{50} + \frac{146}{40}}$$

$$= 7 \pm 1.645 \times 2.59$$

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$$= (2.74, 11.26)$$

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