

$$E_{\text{B}}^{\text{us}} = \text{A} 109270027 \text{ 美元/桶}$$

2.

$$e = \frac{\sigma}{\sqrt{n}} \times Z_{\frac{\alpha}{2}}$$

$$u) \sigma = 3 \quad e = 0.5 \quad 1 - \alpha = 0.95$$

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

$$\hat{=} 139$$

$$v) \sigma = 0.2 \quad e = 0.03 \quad 1 - \alpha = 0.9$$

$$n = \left( \frac{0.2}{0.03} \right)^2 \times 1.645^2 = 120.27$$

$$\hat{=} 121$$

13)

$$\sigma = 0.05 \quad e = 0.02 \quad 1 - \alpha = 0.98$$

$$n = \left( \frac{0.05}{0.02} \right)^2 \times 2.326^2 = 33.8$$

$$\hat{=} 34$$