

$$\begin{aligned}
 \mu \pm 95\% \text{ 信賴區間} : \bar{x} \pm z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} &= 16.33 \pm 1.65 \frac{4.24}{\sqrt{36}} \\
 &= 16.33 \pm 1.18 \\
 &= (15.15, 17.51)
 \end{aligned}$$

15) 6.19

$$n = \left(\frac{z_{\frac{\alpha}{2}} s}{e} \right)^2 = \left(\frac{1.96 \times 0.05}{0.01} \right)^2 = 96.04$$

取 $n=97$, 樣本量應再抽 97-35=62 袋
 確保 μ 的估計誤差界限不超過 0.01 kg 的機率為 0.95