何 6.7

(1) $\chi = 16.33$ (A)· S = 4.29 (公斤) $1-\alpha = 0.95$. $\stackrel{\triangle}{\hookrightarrow} = 0.05$, $Z_{\stackrel{\triangle}{\hookrightarrow}} = Z_{0,05} = 1.96$ $\chi \pm Z_{\stackrel{\triangle}{\hookrightarrow}} = 16.33 \pm 1.96 \frac{4.29}{\sqrt{36}} = 16.33 \pm 1.4$ 消費者更換手物之平均時間 95% 信頼区間 介於 (14.93,17.73) 之 間

(3) $\chi = 16.33(月)$, S = 4.29(公斤) $1-\alpha = 0.9$, $\stackrel{\triangle}{\hookrightarrow} = 0.05$, $Z \stackrel{\triangle}{\hookrightarrow} = Z_{0.05} = 1.645$ $\overline{\chi} + Z_{\stackrel{\triangle}{\hookrightarrow}} = 16.33 \pm 1.645 \frac{4.29}{\sqrt{336}} = 16.33 \pm 1.18$ 稍量有更换手机三平约時間 $\Pi = 90\%$ 信頼区間 介於 (15.15,17.51) 三間

151 6.9

設 M 為新品牌省电燈泡之平均壽命
N=12, 元=15291.62, S= (X:-x)=149.52

(1) 从三英估計處元=15291、67

(2) 1-d=0.9, $\frac{x}{2}=0.05$, N-1=12-1=11 $t_{0.05}(11)=1.746$ $x \pm t_{\frac{x}{2}}(n-1)\frac{s}{\sqrt{n}}=15291.67\pm 1.796\frac{197.52}{\sqrt{12}}$ $=15291.67\pm 1.02.41$ 2P(15189.26,15394.08)

(3) ル三90%到区閉長度 15344.08-15189、26= 204.82

(列 6.19 1- × = 0.95 N = Z = Z 0.05 = 1.96 e = 0.01 S = 0.05 n = (1.96 · 0.05) 2 = (1.96 · 0.05)