

From this and (7) we get

$$k_1 = \frac{354.100}{82.000} = 4.31829.$$

Also $q_0 = 993$ and $K = 0.2$. The answer is

$$\text{CONF}_{0.99}\{4.1 \leq \kappa_1 \leq 4.5\}.$$

14. Multiplying out the square, we get three terms, hence three sums,

$$\begin{aligned} \sum (x_j - \bar{x})^2 &= \sum x_j^2 - 2\bar{x} \sum x_j + n\bar{x}^2 \\ &= \sum x_j^2 - \frac{2}{n} \sum x_i \sum x_j + n \left(\frac{1}{n} \sum x_j \right)^2 \end{aligned}$$

and the last of these three terms cancels half of the second term, giving the result.

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22. From Table 25.1 in Sec. 25.3 we obtain $k = 1.96 \cdot 4/\sqrt{400} = 0.392$ and

$$\text{CONF}_{0.99}\{52.6 \leq \mu \leq 53.4\}.$$

24. $\bar{x} = 26.4$, $k = 2.576 \cdot 2.2/\sqrt{5} = 2.534$ by Table 25.1, Sec. 25.3. This gives the answer

$$\text{CONF}_{0.99}\{23.86 \leq \mu \leq 28.94\}.$$

26. $n - 1 = 3$ degrees of freedom, $F(c_1) = 0.025$, $c_1 = 0.22$, $F(c_2) = 0.975$, $c_2 = 9.35$ from Table A10 in App. 5; hence $k_1 = 0.70/22 = 3.182$, $k_2 = 0.7/9.35 = 0.075$ by Table 25.3 in Sec. 25.3. The answer is

$$\text{CONF}_{0.99}\{0.075 \leq \sigma^2 \leq 3.182\}.$$

28. $k = 2.26 \cdot 0.157/\sqrt{10} = 0.112$; $\text{CONF}_{0.99}\{4.25 \leq \mu \leq 4.49\}$

30. $n = 41$ by trial and error, because $F(c) = 0.975$ gives $c = 2.02$ (Table A9 with 40 d.f.), so that $L = 2k = 2\alpha c/\sqrt{n} = 0.099$ by Table 25.2.

32. From Table A10 in App. 5 and Table 25.3 in Sec. 25.3 we obtain

$$\begin{aligned} c_1 &= \frac{1}{2}(\sqrt{255} - 2.58)^2 = 88.8, \\ c_2 &= \frac{1}{2}(\sqrt{255} + 2.58)^2 = 170.9, \end{aligned}$$

so that $k_1 = 244/c_1 = 2.76$ and $k_2 = 244/c_2 = 1.43$. The answer is

$$\text{CONF}_{0.99}\{1.42 \leq \sigma^2 \leq 2.75\}.$$

34. The test is two-sided. We have $\sigma^2/n = 0.025$, as before. Table A8 gives

$$P(\bar{X} < c)_{1-\alpha/2} = \Phi\left(\frac{c - 15.0}{\sqrt{0.025}}\right) = 0.975, \quad c = 13.31$$

and $15.0 - 0.31 = 14.69$ as the left endpoint of the acceptance region. Now $\bar{x} = 14.5 < 14.70$, and we reject the hypothesis.

36. The test is right-sided. From Table A9 with $n - 1 = 14$ degrees of freedom and

$$P(T > c)_{\alpha/2} = 0.01, \quad \text{thus} \quad P(T \leq c)_{\alpha/2} = 0.99$$

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