Answers Exercises I.4 Basic Stats – Applied statistics

1. The MSE's are σ^2, $\frac{1}{2}\sigma^2$, $10\sigma^2 + 81\mu^2$ and $\sigma^2/10$, so T_4 is the best estimator of μ.
2. **a.** $\bar{X}$ and $\bar{Y}$ **b.** $\bar{X} - \bar{Y}$: $E(\bar{X} - \bar{Y}) = E(\bar{X}) - E(\bar{Y}) = \mu_1 - \mu_2$
   c. $var(\bar{X} - \bar{Y}) = var(\bar{X}) + var(\bar{Y})$, because $\bar{X}$ and $\bar{Y}$ are independent.
   So: $var(\bar{X} - \bar{Y}) = \frac{\sigma^2}{m} + \frac{\sigma^2}{n} = \sigma^2(\frac{1}{m} + \frac{1}{n})$
3. **a.** $\bar{p} \sim N(p, \frac{p(1-p)}{800})$ **c.** $\text{var}(\hat{p}) = \frac{p(1-p)}{800} \leq \frac{1/4}{800} = 1/3200$
4. **a.** 121 *ml* **b.** The quantities $X_1, \ldots, X_{20}$ is a random sample of from a population having a $N(\mu, \sigma^2)$-distribution. 95%-CI(μ) = (120.0, 122.0)
   c. 90%-CI(μ) = (120.2, 121.8) **d.** 2.3, 1.6 en 1.3 ml.
5. **a.** 20.0 and s = 0.498 **b.** The temperatures $X_1, \ldots, X_6$ are independent and all $N(\mu, \sigma^2)$-distributed (unknown μ and σ^2) **c.** We can use the formula $90\% - CI(\mu) = \left(\bar{x} - c\frac{s}{\sqrt{n}}, \bar{x} + c\frac{s}{\sqrt{n}}\right)$, where the mean and s are computed in a. and $c = 2.02$ from the $t(6-1)$-table such that $P(T \leq c) = 0.95$
   d. We use the formulas $90\% - CI(\sigma^2) = \left(\frac{(n-1)s^2}{c_2}, \frac{(n-1)s^2}{c_1}\right) \approx (0.112, 1.08)$ and
   $90\% - CI(\sigma) = \left(\sqrt{\frac{(n-1)s^2}{c_2}}, \sqrt{\frac{(n-1)s^2}{c_1}}\right) \approx (0.335, 1.04)$, where $s^2 = 0.498^2$, $n = 6$, and $c_1 = 1.15$ and $c_2 = 11.07$ from the χ^2_5-table such that $P(\chi^2_5 \leq c_1) = P(\chi^2_5 \geq c_2) = 0.05$
6. **a.** $95\% - CI(p) = \left(\hat{p} - c\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}, \hat{p} + c\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}\right)$ in which $n = 800$, $\hat{p} = 329/800 = 0.41$ and, from the N(0, 1)-table : $c = 1.96$ such that $P(Z \leq c) = 0.975$: $95\% - CI(p) = (0.376, 0.444)$ **b.** Now $c = 1.645$ such that $P(Z \leq c) = 0.95$: $90\% - CI(p) = (0.381, 0.439)$: less wide than in a. **c.** For larger n the width decreases. **d.** The width of the interval in the formula is $2 \times c\sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \leq 0.02$: using $c = 1.96$ and $\hat{p}(1-\hat{p}) \leq \frac{1}{4}$, we find $n \geq 9604$
7. **a.** The salaries $X_1, \ldots, X_{15}$ are independent and $N(\mu, \sigma^2)$-distributed, unknown μ and σ^2
   $95\%\text{-CI}(\mu) = (\bar{x} - c\frac{s}{\sqrt{n}}, \bar{x} + c\frac{s}{\sqrt{n}}) = (2168, 2832)$, where $n = 15$, $\bar{x} = 2500$, $s = 600$
   and $c = 2.14$ from the t_{15-1}-table, such that $P(T_{14} < c) = 0.975$
   b. We are 95% confident that the mean salary of all starting IT-specialists is between 2168 and 2832 Euro: 95% of intervals computed in this way will contain the real expected salary of starting IT-specialists.
   c. $95\%\text{-BI}(\sigma) = (\sqrt{\frac{(n-1)s^2}{c_2}}, \sqrt{\frac{(n-1)s^2}{c_1}}) \approx (439, 946)$. In which $n = 15$, $s^2 = 600^2$ and $c_1 = 5.629$ and $c_2 = 26.119$ such that $P(\chi^2_{14} \geq c_1) = 0.975$ and $P(\chi^2_{14} \geq c_2) = 0.025$
8. **a.** Rejection Region $= [11.645, \infty)$
   b. The power for $\mu = 11, 12, 13, 10, +\infty$ is 26% , 64% , 91%, 5% and 100% resp.
   c. p-value = $P(\bar{X} \geq 12.5 | \mu = 10) = P(Z \geq 2.5) = 1 - P(Z \leq 2.5) = 0.62\% < \alpha = 5\%$
   (12.5 is also in the rejection region determined in a)
9. **a.** 1. Is the claim of higher life expectancy of Michelin tyres justified?
   2. *The lifes X1,…, X20 are independent and N(μ,σ2) – distributed, unknown μ and σ2.*
   3. *Test H0 : $\mu = 40000$ (or $\mu \leq 40000$) and H1 : $\mu > 40000$, using $\alpha = 5\%$.*
   4. Test statistic $T = \frac{\bar{X} - 40000}{S/\sqrt{20}} \sim t(20\text{-}1)$ if H_0: $\mu = 40000$ is true.

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