

STAT 213 Test 2 Review Sheet Fall 2022

- Suppose that a random sample of size 64 is to be selected from a population with mean 40 and standard deviation 5.
 - What are the mean and standard deviation of the sampling distribution of $\bar{x}$? Describe the shape of the sampling distribution of $\bar{x}$.
 $\mu_{\bar{x}} = \mu = 40$
 $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}} = \frac{5}{\sqrt{64}} = 0.625$
 normal (bell curve, symmetric, unimodal, etc.)
 $(40, 5, 64, 40, 0.625) = .5943$
 - What is the approximate probability that $\bar{x}$ will be within 0.5 of the population mean μ ?
 $2 * normalcdf(40.5, 40.5, 40, 0.625) = .2943$
 - What is the approximate probability that $\bar{x}$ will differ from μ by more than 0.7?
 $2 * normalcdf(40.7, 40, 40, 0.625) = .2417$
- The time that a randomly selected individual waits for an elevator in an office building has a uniform distribution over the interval from 0 to 1 minute. For this distribution $\mu=0.5$ and $\sigma=0.289$.
 - Let $\bar{x}$ be the sample mean waiting time for a random sample of 16 individuals. What are the mean and standard deviation of the sampling distribution of $\bar{x}$?
 $\mu_{\bar{x}} = \mu = 0.5$
 $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}} = \frac{0.289}{\sqrt{16}} = 0.07225$
 - Answer Part (a) but for a random sample of 50 individuals.
 $\mu_{\bar{x}} = \mu = 0.5$
 $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}} = \frac{0.289}{\sqrt{50}} = 0.0408$
- Your mail-order company advertises that it ships 90% of its orders within three working days. You select an SRS of 100 of the 5000 orders received in the past week for an audit.
 - What is the mean of the sampling distribution of $\hat{p}$?
 $\mu_{\hat{p}} = p = 0.9$
 $\sigma_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}} = \sqrt{\frac{0.9(1-0.9)}{100}} = 0.03$
 - Find the standard deviation of the sampling distribution of $\hat{p}$.
- A data set includes 208 weights of newborn girls for which $\bar{x} = 28.7$ kg and $s = 6.9$ kg.
 - Construct a 95% confidence interval estimate of the mean weight of all newborn girls.
 - If the 95% confidence interval is between 27.5 kg and 29.7 kg, find the value of the best point estimate $\bar{x}$ and the margin of error E .
 $\bar{x} = 28.6$
 $E = 1.1$
- A data set includes 130 temperatures of healthy adult humans for which $\bar{x} = 98.4^\circ\text{F}$ and $s = 0.60^\circ\text{F}$.
 - (10 points) Construct and interpret a 95% confidence interval estimate of the mean body temperature of all healthy humans. Do the confidence interval limits contain 98.6°F?
 $95\% \text{ CI } (98.305, 98.495)$
 No, 98.6 is not in the interval.
 - Construct and interpret a 90% confidence interval estimate of the mean body temperature of all healthy humans.
 $90\% \text{ CI } (98.385, 98.415)$
 No, 98.6 is not in the interval.
- A. In a sample of 106 body temperature with a mean of 98.2°F. The population standard deviation is 0.62°F. Is there evidence that the mean body temperature of the population is equal to 98.6°F as is commonly believed?
 - Identify the null hypothesis and the alternative hypothesis.
 $H_0: \mu = 98.6$
 $H_a: \mu \neq 98.6$
 - Compute the test statistic (Z) and P-value.
 $Z = -1.61$
 $P = 0.1080$
 - Carry out a hypothesis test at 0.01 significance level. Is there evidence that the mean body temperature of the population is equal to 98.6°F as is commonly believed?
 No, there is not enough evidence to reject the null hypothesis.
 - Answer the same question at 0.05 significance level.
 Yes, there is enough evidence to reject the null hypothesis.

Stat 4quiz 2 Fall Awnsers

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