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Last update 3:11:33 PM AnalyseIt.Public 4.0.8237.21547 Production EU Remote database When constructing a confidence interval with the standard normal distribution, these are the most important values that will be needed. $z_{\{1-\alpha\}} \approx 1.28$, $z_{\{1-\frac{\alpha}{2}\}} \approx 1.645$, $z_{\{1-\frac{\alpha}{2}\}} \approx 1.96$, $z_{\{1-\frac{\alpha}{2}\}} \approx 2.58$. These values are obtained from the inverse of the cumulative distribution function of the standard normal distribution, i.e. we need to consider $\Phi^{-1}(x)$. For example, when we look for the probability, say, that $Z \geq 2.5$. Now we need to calculate the test statistic. We start with the assumption that the normal distribution is still valid. This is because the null hypothesis states there is no change in μ . Thus, as the value $\sigma = 2.4$ mpg is known, we perform a hypothesis test with the standard normal distribution. So the test statistic will be a z -score. We compute the z -score using the formula $z = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}}$. So $\bar{x} = \frac{\overline{x} - 2.5}{2.4/\sqrt{30}} \approx 1.14$. We are using a 5% significance level and a (right-sided) one-tailed test, so $\alpha = 0.05$ so from the tables we obtain $z_{\{1-\alpha\}} = 1.645$ is our test statistic. As $\bar{x} = 0.9$ We need to calculate the mean μ and variance σ^2 . $\mu = np = 200 \times 0.9 = 180$. Using the normal approximation to the binomial distribution we obtain $Y \sim \text{Normal}(180, 18)$. $P[X \geq 185] = P[Z \geq \frac{185 - 180}{\sqrt{18}}] = P[Z \geq 1.0607]$. Because we are using a one-tailed test at a 5% significance level, we obtain the critical value $Z = 1.645$. Now $1.0607 < 1.645$ so we cannot accept the alternative hypothesis. It is not true that over 90% of the supermarket's carrier bags are capable of withstanding a load of 5kg. Comparing Two Means When we test hypotheses with two means, we will look at the difference $\mu_1 - \mu_2$. The null hypothesis will be of the form $H_0: \mu_1 - \mu_2 = a$ where a is a constant. Often $a=0$ is used to test if the two means are the same. Given two continuous random variables X_1 and X_2 with means μ_1 and μ_2 and variances σ_1^2/n_1 and σ_2^2/n_2 respectively $E[\bar{X}_1 - \bar{X}_2] = \mu_1 - \mu_2$ and $V[\bar{X}_1 - \bar{X}_2] = \frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}$. Note this last result, the difference of the variances is calculated by summing the variances. We then obtain the z -score using the formula $Z = \frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$. Workbooks These workbooks produced by HELM are good revision aids, containing key points for revision and many worked examples. Tests concerning a single sample Tests concerning two samples See Also Selecting a Hypothesis Test According to CNN, in 2011, the average American spent \$16,803 on housing. A suburban community wants to know if their residents spent less than this national average. In a survey of 30 randomly selected residents, they found that they spent an annual average of \$15,800 with a standard deviation of \$2,600. Check assumptions and write hypotheses Housing costs are quantitative. Because $n \geq 30$, the sampling distribution can be approximated using the t -distribution. This is a left-tailed test because we want to know if residents of this community spent less than the national average. $H_0: \mu = 16803$, $H_a: \mu < 16803$

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