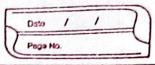
Standardi zed Test Adtistics for small simples

Then o is thomas

Z = x-210

0150



	Pega No.
2	Hen o is unkann: T= x - 210
1 2 V	5/5
12•AA	The T- Statistic follows Studentis +-distribution with (n-2)
	degrees of freedom.
•	Repopulation must be normally distributed.  (sitical ales dos exection one takin soom to t-ditributed.
•	(sitical ales dos ejection one takin som to t-ditribut
1.3	table to the soil of the state
	10 5 5/8 1230 December 1 setting
	Using the P-value approach
٥	When using a table, exact propoles are difficult to compute
•	Inclead, no approximate propor using a singe from the +-table
٦	The attical value appears is after protected
A.,	or to be the country to the state of the sta
to 20	Example: Tennis Porced Price comparison
	Hypotresis setup
	Nyll Hypothesis: Ho: 21 = 179 (No dieten ce)
	Hypotresis setup Nyll Hypotresis: Ho: 21 = 179 (NO differ (e)) A Herratice Hypotresis: Ho: 21 < 179 (online price is local)
	Significance level: a = 0:05
134.6	Calculations
29-146	sample 1155, 179, 175, 175, 1627
	sample rean: = = 169
	Sample standard deviations = 10.39
	De greas of fredom 5-1-4
	T + statistic = 169-179 = -7.752
	20.39/15
	Cofical value from +-+94e2.132
	Refection Region (-d, -7.132)

Dato	1	1	
Pego N	60.		7

Conclusion Since 7 = -2.152 Sall in the rejection segion, we reject the to conclude that online prices are loner than retain P-vale Approach · Since T = -2.152 falls between +-values 7-132 and 2.776, it prale is between 0.025 and 0.50 · Sinco P < 0.05, Le se ject ho विदेश के महिल्ल हैं के महिल्ल के महिला में हैं है। महिला महिला महिला महिला महिला है। longe sample tests dos a population proportion Vey Concepts in a sect of sold of the all 1 Hypotheses: The null hypotheses (Ho) states that the population proposition equals a specific value (po). The alternate hypothesis (Ha) can take there forms in which poc po Cleft - tailed test) p.> Por Cright: - tailed test ) -P # Po (+wo-tailed tests) Is a solition 2 Test-Statistic: Re dardisdized test statistic dullows a rosal distribution and is sollected consculated as Z = Pipo. To air NEX. DZ ( 2 5 1 = 2 1 V . POGO - cool not) 1 - 2 2 Whose . P = sample propostion Po = hypothesized population propostion  $G_{0} = 1 - p_{0}$  h = Sumple Size

Sumple size(andition: Refert; salld if the interval)

[] -3 \P(1-\beta) \P(1-\beta) \P(1-\beta) \text{ falls within [0,1]} Example soft Doink Preservance (Coitical Value Approach) · A soft dink company claims that more than hald of adults producits bereage over a competitoris. A sample of 500 people was tested, and 270 (54%.) preded the company's 1 Set Hypotheses HO!P = 0.50 (even preference) Significance Level: a = 0.05 2 Calculate Tost statistic (a) rulate 184 Statistic

Z = 0.54-0.50 = 7.789

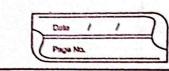
\[ \tag{(0.50)(0.50)} \]

\[ \tag{0.500} \tag{0.500} \] 3 Determine: Rejection Region
Right tailed jest; critical value = 1.645

since 1.789 > 1.645, reject to 4 Conclusion: At a 37. significance level, tree is sufficion ovide no that a mujority poeder the company's belonge Tasting the Difference Butwan I waneans (Independent Groups) This section explains tow to test for differences between means from two soprate good. Researchers other compase good read sates then source on individual valor

Date	1	1	
11.	-		-
-			-
Page H	h		No.

	Prop Ho.
	Assumptions for Tosting the Difference between Two roans thorogentity of various co: The two populations have
2	Honogeneity of variance: The two populations have
	oizul variance.
2	Normality: le populations que normally distributed.
291162	Independence: Each sample, value is andepartent, out
1.00 m	some subject contributes only one score!
فنبهاغسنه	an or birder of the part of the test of particle of the man
	Test calculation steps:
	Wo use the general + -kst formula
	t = Statistic - hypothesized repleased
~~·	ectivated standard oceas
beams!	For testing the difference betien man!
	Statistic: Re distince. Lotre un rample neans.
	Apothesize d value: O Cassumiy no difference in population
	means Diffition for mountain
	estimate standard cotor: calculated using pooled variance.
<del></del>	Example: Animal Re Franch Study
	Example: Animal Re Franch Study  Students sated Low wood they think animal swearchis
	using a 7-point scale. The sample statistics for males and deales.
	Sin 11 2 2 8 9 2 2 6 4 5 1 6 6 6 1 40
~	Group n Mean variance
4515134	Forales 17 5.353 = 7.743
- sing	Maler 17 3.882 - 2.985
<u> </u>	
	Compule. He tifficanica between manifil is a
	- Ma -Ma - 5.353 - 3.882 - 2. 7705
-	a rate of the said of the straint of the said of the said
	a bear my a seint into which your
	·
	사업보면적 - 그는 전략적으로 다면적으로 보이 되었다. 그 사람들은 100 보고를 되고 사고를 들었다. 이 이 전에 다른 것은 이 전략을 다 적용했다. 



	Custard
7	Estimate variance
	MSE - 5,7+527 = 7.743+ 2:985 - 2.864
	2
3	compute the standard organ of the difference
	SMZ-MZ = \[ 2x 71864 - 65805
	was the second of the second o
4	Complete tota tistic: t= 7.4705 = 2.533
	0 305
5	and P-ula (Ton-Tailed Test, do =32):
	Two tailed p-celos: 0.0.164.
	0.0082
	Conclusion
	Since the two toiled prake (0.6164) is below 6.05, we get
	the null hypothesis. This reans there is a statistically
	significant distrance between male and fenale opinions
	on animal sesposch.
-	
	This netted alkins se search ors to cet armite if different
· .	· betreen sample nears settle ct seal population : differences
	or occur die to clance.
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