

Critical values ab Z	at commoly used level
al segnetricance from	at commoly used level both two tailed and
single-tailed test	With Charles Haster

	And the second s		
Conticalvalue	And Alex	earl ob Sign	ebignie.
(Zd)	1 %	15%	10 1/2
Two tailed test	12x = 2.58	12x1=1.96	1Zx /= 1.64
Right lailed fest	Zz= 2-33	Zz=1.645	Z = 1-28
held failed test	Zz= -2.33	,Zz=-1.645	Zz=-1-28
	The state of the s		

ExD A sample ob 900 members has mean 34 cms
and standard deviation 2.61 cms. Is the sample
brown a large population ob mean 3.25 cm and
Standard deviation 2-61 cm?

Of the population is normal and its onean is anknown, bind the 95% and 98% biducial limits ab frue mean.

Sol Null hypothesis (Ho): The sample heighed been drawn brown the population with mean u = 3.25 cms, and s.D. G = 2.61 cms.

Alternative hypothesis
H: U = 3.

H: U = 3.25 (Two fayled)

Trest statistics

Since [21 < 1.96, we conclude that the data don't provide us any evidence against
the null hypothesis (40) which may therebre
be accepted at 5% level ab signebicance 95% biducial limit for population mean it are $\frac{\pi}{1.96.6} = 8.40 + 1.96 (2.61)$ = 3.40 + 0.1705 1e. 3.5705 and 3.2295 98% bideral limit box population megn 4 ars X + 2.33-6 = 3.40 + 2.33 x 2-61 Vn 30 3.40±0.2027 1e 3.6027 and 3.1973 Ex(2) A sample ab 100 students à laken boom a large population. The mean height ale the Stredent on this sample is 160 cm. Can et be reasonably regarded that, in the population, the morean height is 165 cm. and the S.D.is Sol Null hypothesis : Ho: The sample has been drawn troom population con the mean height 165cm, ce u = 165cms Alternative hypothesis
H,: le \$165 cms (Twotasled) $Z = \overline{X} - 10 = \frac{16S}{100 - 16S} = -5$

	Page
	Z=1-5
The state of	Now /2/= 571.96
	mus ful hull hypothesis is rejected at 5% level
	ab significance.
26 000	So et is not correct to assume that the
	Sample has been drawn brown a population
	certh magn height 165 cms.
	Cables supplied by a manubacturer is 1800 with
	cables supplied by a manubercturer is 1800 with
	16 S.D at 100. 13 y a new rechnique ch me
01017	manubacturing process, et is claimed that the
	breaking strength at the caste has increased . In order
	to jest this claim, a sample at 50 cables is keeped
	and it is bound that the mean breaking strength
	is 1850: Can we seepport the claim at 1%
	level at segneticance.
	SOL: X = 1850, N=50, U=1800, 6=100
lacen	Null hypothesis Ho: x=u
200	Deternate hypothesis H, : Te 716 (Regul tacked)
new S	Stilled in this sample is the constant
The same of	Z= \(\frac{7}{2} - 24 - 1850 - 1800 - 3.54
	0/Vn 100/V50
	11000 1717 232
433	Here 12/7 2.33
A DESCRIPTION	Null hypothesis à rejected and alternate
31633	Ry pothesis à accepted
	So are conclude that the data suggest that there is increase in breaking strongthing
MARKET A	that there is increase in breaking strength
	The state of the s