UNIT 3

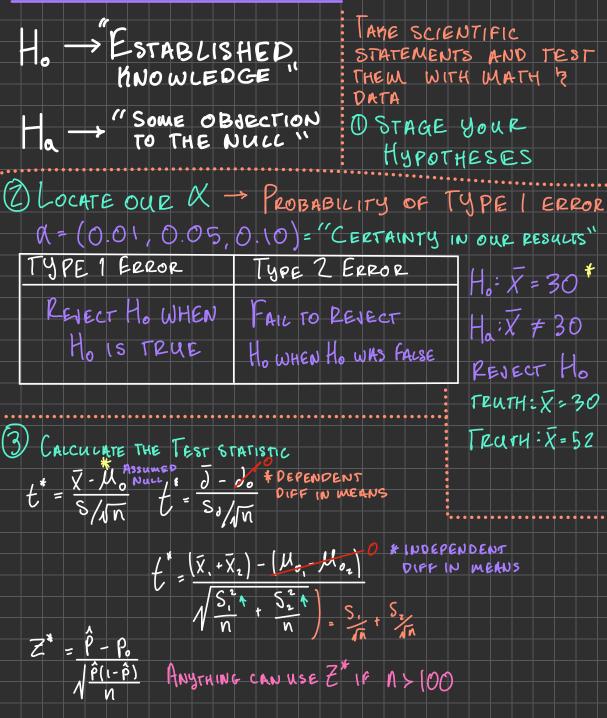
CONFIDENCE

NTERVALS

CI=PE±MOE

SAMPLE Clp= Proportion $\pm Z_{\alpha/z} \begin{pmatrix} \hat{P}(1-\hat{P}) \\ n \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ S & z \end{pmatrix} = Z \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ S & N \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ S & N \end{pmatrix}$ $\pm t_{\alpha/2} \xrightarrow{S} \longrightarrow Z_{\alpha/2} (N > 100)$ CIN= MEAN CI = SAMPLE ± CRITICAL * STOEV STAT VALUE ADJ N $\bar{X} = 10 \text{ cm}$ MOE = 2 cm 95% CI $CI = \overline{X} = MOE = IO_{cm} = Zcm = (Scm, IZcm)$ $C|_a = \overline{\chi} \pm MOE_{90\%}$ As $n \rightarrow 00$ what HAPPENS TO OUR $C |_{b} = \overline{X} = MOE_{95\%}$ Cl? R=0.05 $C|_{c} = \overline{X} \pm MOE_{99\%}$ $C \downarrow \rightarrow (\downarrow, \downarrow) \rightarrow (\mu, \mu)$ UNINFORMATIVE $C_{10} = \overline{X} \pm MOE_{100\%} = (-\infty, \infty)$

HYPOTHESIS LESTING



9 TEST THE HYPOTHESIS	P-VALUE
P-VALUE - PROBABILITY THAT OUR	
RESULT IS DUE TO CHANCE	$\partial F = n - 1$
CRIT - VALUE -+ Hypornerically what is	O GO TO E - TABLE
Z* 19 OVERLY A REASONABLE TEST STAT	D Loon up df
COMPLEX TO ASSUME RANDOM CHANCE	() FIND VALUE (S)
t very starter	CLOSE TO t
	PROBABILTY AT
CETTICAL VALUE DECISION RULE	THE TOP OF COLUMN = P-VALOR
OGOTO E-TABLE	* • • • • • • • • • • • • • • • • • • •
	* CONCLUDE FROM
Brind OF FAIL	REJECTION
(9) THE INTRESECT IS PZ & REJECT	
THE CDUT VALAC	
$t^* \rightarrow t_{\alpha/2}$ BASED IN	D TEST DIRECTION