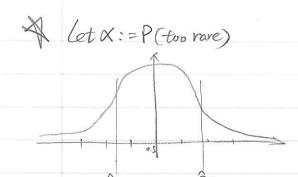
Retainment Projection Private of Private of



 $1-\alpha = P(Ho\ retaind)$

= P(P E [Psmall, Plarge])

= P(P C [p + margin])

= P(PE[PEZX/PC+P)])

- Retainment Regin = [PI ZX/P(-P)]

- Rejection Regin [P+ 20 P(1-P)]C

Calculate p of p & Retainment Regin => Retain => Ho, We do not have sufficient evidence to reject the null hypothesis DIf ρ∈ Rejection Region . >> Reject Ho. Also accepts Ha. We have sufficient evidence to reject the wall hypothesis..

Qx: N=345, X=5%

Retainance Regim = [0.5 ± 2 \(\frac{0.5(+0.5)}{3.85} \) = [0.446, 0.554]

if 169 bodies were male => P = 169 = 0.48 E Retainance Region

We do not have sufficient evidence to reject human gende ratio equality.

ex: Hip a coin low time, you want to know if coin is fair P:= PCHD Ho: P=0.5, Ha: P + 0.5, X=5%

see I: 514 Fair? yes,

see II: 98H Fair? No.

sce W: 61H Fair?

Ret Region = [P + 20 (P(1-2)) = [0.5+ 2/0.5/1-0.5)]

= 70.4,0.67

P = 61 = 0.61, P& Rotainment region.

ex:	Mars (the candy corp.)	says the prob o	f blue M&M's
	is 20% you think otherwise		1
	(et's pr= (Blue), Ho: P=0.2, Ha: P+0.2		
	N=615, M&M 8 X=1		
	Ret Region = [P + 2x PCFP] =	[0.2 ± 2.84 \[\frac{0.2 (+0.2)}{615} \] = [
	P= 158 = 0.2569 => PERet	Region	
	=> Reject Ho, The prob of Blue MRM's is not 20%.		
			alth min- (12)
Summy:	Pis draw from P/H.N	N(P.GPCHD)2)	7-011 of
W	P. L.	Decision Retain Ho Reject Ho	Ha Five Decelon a S
<i>y</i> .	P	Ho true / YPE emor	P(Type Jewid = &
6		Ho fales Type II V	PCType Ignor) beyond
	PC Reject Hal Hofa	(se) = Power (Ho cover	Score of class.
		(ype I eu)	
	∠ → P(TypeJen) V ⇒ P(
A	Clinical Trial		
	Ho: drug does not work.	Type I emor: release	a drug than doesn't work
	Ho: drug work.	Cast: possible death	
,	Decision: release drug to morket	Type I enor: not relea	using a drug that does work.
		> Cost: people can't be	
		V	,

ex: Coort case. TypeLerror Ho: Innocense punish a innocent person. Ha: Guilty 149 14 Decision: punishment or Not. Type II even yo free. 131 : Tire Alarm Ho: No fire. Type I en: false clarm. Ha: Fire. Type I eu: fire, but no alarm. Deceion: Set off alarm. Ho time of the come of the form = or Ho-fales Menor V scope of closes. PCROPORTE Hotolog) = Power (No cover) A => P(Type I en) 1 => P(Type I en) 4 Type I emore release a drug than doesn't work Type I and not not asking a drag that does Decision: melana drug to market Ost: people can't be holped.