

Skeptical, will not allow any Gullible will allow any argument to arguments to sway his opinion Sway his opinion. Ex: HoUFO's & Aliens do not exist Ho = UFO & Aliens do not exist Ha: do exist. Ha = do exist. & low. × high. Ho= Aliens do exist Ho=Aliens do exist d = high. You can easily convince him that allows I lta = don't Ha= don't X = low You won't convince this guy that Aliens don't exist. Ex: If more than I % of passage complain. the Uber driver is fixed. Uber make discition (keep/fire) after 1000 ride. Let P:=P(complain) PHONN(PNP(1-P)2) Ho: good driver P < 0.05 Ha: bad driven P>0.05 Reject Regin Retain Regin P(Z>2)=2.5% Let d=25% 2d:=F, (+2) Type I. fire a good driver with too much complain by pad ass. Type I. don't fire a bad driver with no complain. - One-Side or right side test of one proportion. P(Reject) = X. => P(Z \le Z\lambda) = 1-d => P(\frac{P(I-P)}{n} Z \le \frac{P(I-P)}{n} Z\lambda) = 1-d =>P(Retam)=(1-0) $P(P+\sqrt{\frac{P(1-P)}{n}}Z \leq P+\sqrt{\frac{P(1-P)}{n}}Z\alpha) = 1-\alpha$ PCP < P+ 2 x (PC(P))=1-x (-0, P+ZQ/PC-P)]=(-0,0.5+2/0.5(1-0.5)]=(-0,0.0638)

experment: # of complain = 71. $\hat{p} = \frac{71}{1000} = 0.071$ & Retain Regin => Reject Ho. Fire driver.

2 side x = 5% Z=2. One side x = 2.5% Z=2 1% Z=2.84 = 0.5% Z=2.84

- Change to: Ho: bad drive. Ha: good drive.
P>0.05
P<0.05

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