6/16/4 Lecom # 13 Hor due som (mil sloo) - CI's for Souples when so is 4nkm 25% Down of - hypothesis tosay Reulle: CI's for props Simples Penl: [] + 194 / [] X = 1.96 0 Appre: p + 1.16 [(-6)] X + 196 3/3] Wy JEG 2 JEG by 520 if nislage Formby $S = \int_{-1}^{1} \underbrace{S(x_{i} - x)^{2}}_{S^{2} - x_{i}} S = \int_{-1}^{1} \underbrace{S(x_{i} - x)^{2}}_{S^{2}} S = \int_{-$ & 5 is 1 draw for its r.v. and hory loos of valoreness. Therefore, we have so recorde the mitor of the CI

The = 2 for present proposes

An emple: heights of NBA phyon (qu 6) X=77.59, S=4.980 For CEmp for the ven height of all NBA plyons. Problems? SRS? $C_{1,35}/=\left[\overline{X}^{\pm} + t_{25}/, 16 \frac{5}{\sqrt{5}}\right]$ = [77.59 ± 2.583 · \$.980] = [7847, 80-71] Child He reful Will You have a coin. You must so know if it's binsel tourneds H. You Alp 100x and yes 60 # H. All A. Scon 1 Jun 2 Sen 3 52 H 93 H 6014 birred? prob no 11 heed Star 101? Serpt exp? n=100 Who is result of exp? $\hat{p} = 0.6$ Alberton

pre hue no tools. I mild CI? CIP,95% = $\left[\hat{p}^{\pm} \pm Z_{0000}\right]P(P)$ = $\left[.6 \pm 1.96\right]\frac{.6.0}{100}$ = $\left[.50\%,696\right]$ does that Ligin ? No ... Med ran to machine Ch16 Hyp. Tests. If the coin was not breed: P=0.5 = N(0.5, 0.05) 9.35 0A9 0.85 0 8 955 0 60 9.65 The host brosel" Status gro" is p=1.5. he callohas He will hypophier. Ho: p=05

The alknown or how - States goo. In is worm pur is

Le altermine hypostisis.

Ha: P>0.5

We gasam Ho is the September and

We reed to establish a "shadom" (come flag) or

rejectom region for our Mall.

Hon do ne de shis? Pict q = P Type Ian)

Confamille moh... less og x=0.05

 $\rho = 2 \rho + 25 = 0.5 + 1.65 \cdot 0.05 = 5.582$

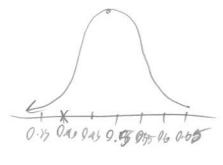
Zo.os=1.645

Are we in also region? Mer $\hat{p}=0.6 > \hat{p} \times = 0.68$ $\Rightarrow \text{Region 16}$ Usully $z=\hat{l}-\hat{l}=0.6-0.5=2$

Unily Z=1-P = 0.6.05 = 2 > 20.05 = Rycex Ho

Mor in the product? $Prm = P\left(\frac{1}{2} + \frac{1}{2} + \frac{1}$

Per Ans. at $\alpha = 1\%$.



$$Z = \frac{2 + 0.5}{9.05} = -2 \neq -2.3$$

$$f_{ml} + e rg_{mr}$$

$$||P(\hat{p} \le 0.4)||P = 0.5| = P(Z \le -2) = 0.073 > \infty$$

to do the bral appoint -

Ore-gold, Ass - left - sidel (less den ...) Tro-godel M&M's & Phas I2 = { Bhe u-p. 24%.

Brown up. 13%.

Grove up. 16%.

erge up 20%.

Med 12%. Vellerp, 19%. Nanto tea Blue in 5 packages. He: P= 0.20 P + 0.27 En of Just difference Use X= 2.05 P~ M. JED) = MO24,

then 1-5mg 2-4005-

1000 100