T Shirt Problem & XL Tshirt FRIDAY 100K L TORIS 800 L Tshirt 500 people 200 XL Tours let assume C.I - 95%. d=0.05 Cet assume 70% of population wear L Tisking. U= 70% = 0.7 N=500 1 Ho = 70% = Po = 0.7 q. = 0.3 HI + 70% > 2 d=0.05 CI=0.95

3 perceit e boundary

(4) z test = $\frac{\hat{p} - P_0}{\sqrt{P_0 q_0}}$

 $\frac{\hat{P} - P_0}{\sqrt{\frac{P_0 Q_0}{n}}}$ $\frac{-0.025}{-1.96}$ $\frac{+0.25}{+1.96}$

 $\frac{0.6-0.7}{5.0.3\times0.7} = \frac{-0.1\times5500}{50.21} = \frac{-1\times55\times10}{50}$ = -4.879

May all the chear a con a

so we will reject the null hypotheris.

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2 Con lies betweening 27

-1.96 (0.6-2 (1.96)

500

90 v 1 2021 but -1.96 x 5021 < 0.6-2 2 CO-6 + 1.96 Jo. 4 20.6 + 1.96 Jo.24 2 €0.6401 1-96 0.6-x < 1.96 x 50.21 0.6-2 0.040/ 0.6-0.0401 < 2 0.5599 < 2 SUNDAY 28 0.559 <2<0.640] Po à 55.9% to 64.01%. LPR. Joshirt # 1 55.9 X 1 50 K M P W T F S S M T W K F S S M T W T F S S