

Lower fence = m - Za/2 (5) 520 - 1.29 100 520 - 25.8 494.2 Higher fence = 520 + 1.29 x 20 = were accept mile sis Lill reject NULL will reject NULL hypothesis If CI is 4942 to 545.8, then will accept NULL hypothesis If data point is lessen than 494.2 on higher than 545.8, then it will niject NULL hypothesis. 494.2 3. What is the value of 99 percentile ? 2,2,3,4,5,5,5,6,7,8,8,8,8,9,9,10,11,12 Regd. value = Percentile x (n+1) $= \frac{99 \times (20+1)}{100} = \frac{99 \times 21}{100} = \frac{20.79}{\text{(index position)}}$ Value = 12

At . I can believes that the percentage of citizens in city ABC that owns a vehicle is 60% or less. It sales manager disagres. He conducts a hypothesis testing surveying 250 ousidents & found that 170 residents responded yes to owning a vehicle. a) State the null & alternate hypothesis 6) At a 10% significance level is there enough oridence to suppose the idea that reticle owner in ABC city is 60% or les Ho: Po \ 60% } gwo tail test Peroposition $\hat{p} = \frac{250}{n}$, n = 170Peroposition $\hat{p} = \frac{21}{n}$ $\frac{170}{250} = 0.68$ B 90=1-P0= 1-0.60= 0.40 x = 0.10, C. E = 90% Zp.10 = -1.28 2.588 > -1.28, we accept the null hypothesis.

