The a company there are look employees. How many L-Tshirt and xi-tshirts are needed if the sample detail given is so and sample mean for Lie and sample mean for Xi is 300 and sample mean for Lie 200?

Given:

h=500

X=0.05

For Xi:

$$Z_{4/2} = Z_{0.05} = Z_{0.025} = 1.9b$$

$$C.I. = \hat{P} \pm Z_{\alpha/2} \sqrt{\frac{\hat{P}(1-\hat{P})}{n}}$$

$$C.I. = 0.6 \pm 1.96 \sqrt{0.6(1-0.6)}$$
500

Lower Fence = 
$$0.6 - 1.96$$
  $0.6(0.4)$ 

$$= 0.6 - 1.96 (0.0219)$$

$$= 0.55$$
Higher Fence =  $0.6 + 1.96$ 

$$= 0.6 + 1.96 (0.0219)$$

0.55

8,000k8

$$\hat{p} = \frac{200}{5}$$

$$Zd/2 = \frac{20.05}{2} = \frac{20.025}{2} = 1.96$$

$$C.I. = P + Z_{12} \frac{\beta(1-\beta)}{n}$$

= 0.4 ± 1.96 \ 0.4(1-0.4)

Lower fence = 0.4-1.96 (0.0219)

= 0.35

= 0.44

Higher Fence = 0.4+1.96 (0.0219)

= 0.4 ± 1.96 (0.4 (0.6)

= 0.4-(0.0429)

= 0.4+ (0.0429)

35%-to 44%. of the entire population will be 1-1shirts





A can company believes that the percentage of residents Q2: in city ABC that owns a vehicle is 60% or less. A sales manager disagrees with this. He conducts a hypother, testing surveying 250 residents and found that 170 responded yes to oconing a vehicle.

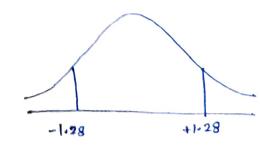
- a) State the Null A Alternate Hypothesis.
- At 10% significance level, is there enough evidence to support the Idea that vehicle ownership in ABC city is 60% or less?

Green:

$$\hat{P} = \frac{x}{h} = \frac{170}{250} = 0.68$$

n= 250

Alternate Hypothesis Hi: Po>60



$$Z = \hat{P} - P_0$$

$$\sqrt{\frac{P_0 q_0}{n}}$$

Since the z-value is greater than 1.28, we reject the null hypothesis.

... The vehicle ownership in city ABC is not 60% or less.

Q4: What is the value of the 99 percentile?

2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12 value = Percentil e x (n+1)

So, the value at 20th index is 12 . The value of the 99 percentile is 12/