$$\begin{array}{c} \gamma | 1 \\ (1) \hat{p} = \frac{105}{250} = 0.42 \\ 0.42 \pm \frac{7}{2500} = 0.42 \\ 0.42 \pm \frac{7}{2500} = 0.42 \\ 0.42 \pm 1.645 \times 0.03 \\ = 0.42 \pm 0.05 \\ = 0$$

0.98

34

(a)
$$\hat{p} = 0.13$$
 $e = 0.03$ $1 - \alpha = 0.95$
 $e = \sqrt{n} \times Z$
 $n = (\frac{Z}{e})^2 \times \hat{p} \times (1 - \hat{p})$
 $n = (\frac{1.96}{0.13})^2 \times 0.3 \times 0.1 = 896.37$
 $= 891$

(b)
$$\hat{p} = 0.42$$

$$N = \left(\frac{1.96}{0.03}\right)^2 \times 0.42 \times 0.58 = 1039.19$$

$$= (040.19)$$

(C)
$$\hat{p} = 0.5$$

 $n = (\frac{1.96}{0.03})^2 \times 0.5 \times 0.5 = 1069 \cdot 11 = 1068$