

21. (1) $P = \frac{105}{250} = 0.42$ 0.42 ± 2005 $\frac{10.42 \times 0.58}{250}$ (2) (a) P = 0.42 = 0.42 = 0.95 $P = 0.3 \cdot P = 0.95$ P = 0.95= 0.42 ± 1.645 x 0.03 = 0.42 ± 0.05 => (0.37, 0.47) $e = \frac{\sqrt{2}}{\sqrt{n}} \times \frac{2}{\sqrt{2}} n = (\frac{2}{e})^2 \times \frac{2}{\sqrt{2}} + (1-p)$ $- N = \left(\frac{1.96}{0.3}\right)^2 \times 0.3 \times 0.7 = 896.37 = 897.$ (b) $\beta = 0.42$ $N = (\frac{1.96}{0.03})^2 \times 0.42 \times 0.058 = 1039.79$ (C) $\beta = 0.5$ $N = \left(\frac{1.96}{0.03}\right)^2 \times 0.5 \times 0.5 = 1064.01 = 1068$ 2. e== x 35 (1) 5=3 e=as A=1-0.95 $h = \left(\frac{3}{2}\right)^{2} \times 1.96^{2} = 138.3$ = 139(2) 6=02 e=0,03 1-d=0.9 n=(0,2) x 1.6452=120,27 = 121 (3) 0=005 C=0.02 1-0=0.98 $N = (\frac{0.05}{0.02})^2 \times 2.326^2 = 33.8 = 34$