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6.30. (a) mean = 1200 hours

(b) 10 = 100 (hours),  $3 = \sqrt{\frac{n}{n-1}} = \sqrt{\frac{10}{9}} \times (00^2 = 105.4 \text{ (hours)})$ 

(a) 取 Z= X-M 则有 P(Z = Z = Z) = 997。 = 東区)= (+9972 = 0.995 =7 Z=2-5) 故P(-2.58 = X-A = 258)=997。 = P(X-2.58·荒 = M= X+258· 元)=997。

\$ n=250, X = 0.72662, 0=0.00058, ko M= X±248 = 0.72662±0.0000 946 (inchs)

(b) 同理, 取至(2)= 1+982=0.99, 得 2=2-33 the M= \$x 2.33 Th = 0. 72662 ± 2.33 × 0.000\$8 = 0.72662± 0.0000 8\$5 (inche)

(c) \$(2)= 1+95% = 0.975 =7 2= 1.96 th M= x±1.96 = 0.72662± 1.96 × 0.00058 = 0.72662 ± 0.0000 719 (inches)

(d) \$(2) = 1+90% = 0.95 7 2=1.64 the M= X± 1.64 = 0.72642 ± 1.64 × 0.000\$ = 0.72642 ± 0.0000 602 (mohs)

6.35. (a) d(2)= 959+1 =0.975====1.96 又从=X± 1.96· = ×± 1.96×100, 及收 1.96×100 € 20, 有 N>(1.96×100)= 96.04, 故至少需要9月台、

(b)  $\Phi(z) = \frac{1+90\%}{2} = 0.95 \Rightarrow z \cdot 1.64$ ,  $M \approx \frac{1.64(100)}{20}^2 = 67.24$ ,  $3\% \approx 68\%$ . (c)  $\Phi(z) = \frac{1+91\%}{2} = 0.995 \Rightarrow z = 2.58$ ,  $M \approx \frac{2.58 \times 100}{20}^2 = 166.41$ ,  $3\% \approx 167\%$ .

(人) 亞(王)=1+99.3390=0.99865=> マ=3.00、はりれ>(3×100)20)2=225,至少點至225位

6.39 Lit  $\frac{7}{3}$   $= \frac{0.28 \pm 0.3 \pm 0.27 \pm 0.32 \pm 0.278}{5} = 0.278$ ,  $\hat{S} = \sqrt{\frac{Z(X-X)^2}{N-1}} = 0.02387$ , N = I, D = N-1 = 4

(a) is T= x-11 | P(-c=T=c)= Fy(c)-Fy(-c)= 2Fy(c)-1= 9570 => Fy(c)= 1+9570 =0.975 由此知 C=2.78, 故 C·\$ = 2.78×0.02387 = 0.0297

故从= X ± C.豪= 0.298 ± 0.0297 (5)

(b)  $F_{\nu}(c) = \frac{1+917}{2} = 0.995 \Rightarrow C = 4.60$ ,  $\sqrt{3} \cdot \frac{1}{\sqrt{5}} = \frac{4.60 \times 0.0387}{5} = 0.0491$ the M= x + C= = 0.298 + 0.0491 (5)

6.41.(a) 已知 N=60, P=70%, 取 T= x-M= x-P (-c = T = c) =95%, 有更(c)= 1+95%=095 記水 C.  $\frac{PUP}{n} \leq 5\%$ , 別  $\frac{C^2 - P(1-P)}{(570)^2} = \frac{1.46^2 \times 0.7 \times 0.3}{(570)^2} = 322.69, 至外 需要323 颗.$ 

(b) 同性, 更(c)= 1+972=0.495 > C= 2.58

(c) 至(c)= 1+99.117=0.99865 かC=3.00, 板内> 3×0.7×0.3 = 756,至少态度756颗.



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$$Z = X \pm C \cdot C_S = X \pm \frac{C \cdot C_T}{12n} = 1800 \pm 1.96 \times \frac{1800}{12n(0)} = 1800 \pm 249 (16)$$

$$D = X \pm C - \frac{D}{12m} = 1800 \pm \cdot 2.58 \times \frac{1800}{12000} = (800 \pm 328 (16))$$

(c) 
$$\Phi(c) = \frac{1+99-739}{2} = 0.99865 \Rightarrow C=3.00$$

$$T = X \pm C \cdot \frac{\sigma}{12n} = (800 \pm 3.00 \times \frac{1800}{1200} = 1800 \pm 382 (16)$$

$$\Rightarrow \frac{1}{L} \cdot \frac{\partial L}{\partial k} = \frac{h}{k+1} + \ln(\chi_1 \cdot \chi_2 \dots \chi_n)$$