$$n=25 \rightarrow \overline{\chi} = 1/3.0 \quad cold = 8.0$$

(b) $\mu = 10 \quad cold = 8.0$
 $n=25 \rightarrow \overline{\chi} = 1/3.0 \quad cold = 7.5 \quad s= 9.0$

[2] (A) N=100

(b)

(c)

(9)

是(不好)→X P=X/n

 $V_{ar}(\widehat{P}) = V_{ar}(\frac{x}{n}) = \frac{1}{n^2} V_{ar}(x) = \frac{1}{n^2} \cdot n \cdot P \cdot (1-P) = \frac{1}{n} \cdot P \cdot q$ $V_{ar}(\widehat{P}) = \int_{\widehat{P}} \frac{1}{n^2} P \cdot q$

d=0.05

d=0.1

0.6x (0.5-0.1)= 0.6x 0.4=0.24

[3] Ho: P=60% 抽100人 → 是(板對): 66 不是(板對): 34

 $E(\hat{\rho}) = E(\frac{x}{n}) = \frac{1}{n}E(x) = \frac{1}{n}n \cdot \rho = \rho$

 $\hat{\beta} = 0.6$ 0.6 × (0.5-0.025)= 0.6 × 0.475=0.285 0.6-0.285< P < 0.6+0.285 \Rightarrow 0.315 < P < 0.885#

0.6-0.24 < P < 0.6+0.24 > 0.36 < P < 0.84 #

X = 60 h-X=40

(a) P(x=66)=P(x=66|P=0.6)

(b) P(x≥66)

[1](a) H=10 == 8.0