1-01 $\frac{1}{5} \times (\frac{75}{100} + \frac{95}{100} + \frac{80}{100} + \frac{85}{100}) = 0.8$ 1-b Yes, he should choose label 4, and the incorrect variet decreases to: 1-0.35 = 0.65

a. 0.0. (1-0).0.0 = (1-0) b. log[04, (1-0)] = log (04) +log (1-0) = 4lg0 + lg(1-0) C. [10) = 4 log 0 + log (1-0) $\frac{dL}{d\theta} = 4 \cdot \frac{1}{\theta} + \frac{1}{1-\theta} \cdot (-1)$ > 4 - 1-0 $=\frac{4(1-\theta)-\theta}{\theta(1-\theta)}$ $=\frac{4-50}{9(1-0)}=0$ P=08 When $\theta = 0.8$, PCHHTHH) is maximum.