Question #245
Key: E

$$n\lambda \geq \lambda_0\left[1+\left(\frac{\sigma_Y}{\theta_Y}\right)^2\right]; \theta_Y = \alpha\theta = 10{,}000\alpha; \sigma_Y^2 = \alpha\theta^2 = 10^8\alpha$$

$$n\lambda \geq \left(\frac{1.96}{0.1}\right)^2\left[1+\frac{10^8\alpha}{10^8\alpha^2}\right] = 384.16(1+\alpha^{-1})$$

Because α is needed, but not given, the answer cannot be determined from the information given.