Question #255 Key: E

 $\bar{X} \sim N(\mu, \sigma^2/n = 1.44 \mu^2/n)$

 $0.05\sqrt{n}/1.2 = 1.96$

n = 2212.76.

 $0.95 = \Pr\left(\frac{0.95\mu - \mu}{1.2\mu/\sqrt{n}} < Z < \frac{1.05\mu - \mu}{1.2\mu/\sqrt{n}}\right)$

 $0.95 = \Pr(-0.05\sqrt{n}/1.2 < Z < 0.05\sqrt{n}/1.2)$

 $0.95 = \Pr(0.95 \,\mu < \overline{X} < 1.05 \,\mu)$