Question # 67
Answer: E

$$12.50 = \bar{a}_x = \frac{1}{\mu + \delta} \Rightarrow \mu + \delta = 0.08 \Rightarrow \mu = \delta = 0.04$$

$$\bar{A}_x = \frac{\mu}{\mu + \delta} = 0.5$$

$$^2\bar{A}_x = \frac{\mu}{\mu + 2\delta} = \frac{1}{3}$$

$$\text{Var}\left(\bar{a}_{\overline{T}|}\right) = \frac{^2\bar{A}_x - \bar{A}_x^2}{\delta^2}$$

$$= \frac{\frac{1}{3} - \frac{1}{4}}{0.0016} = 52.083$$

$$\text{S.D.} = \sqrt{52.083} = 7.217$$