

Question #233

Key: A

$$\hat{\mu} = \bar{x} = 12 / 60 = 0.2, \text{EVPV} = \hat{v} = \bar{x} = 0.2$$

$$VHM = \hat{a} = \frac{10(0.4 - 0.2)^2 + 20(0.25 - 0.2)^2 + 30(0.1 - 0.2)^2 - (3 - 1)(0.2)}{60 - \frac{10^2 + 20^2 + 30^2}{60}} = 0.009545$$

$$\hat{k} = 20.9524; \quad Z = \frac{10}{10 + 20.9524} = 0.323$$