

Question #239

Key: C

The sample mean of $\frac{157(0) + 66(1) + 19(2) + 4(3) + 2(4)}{248} = 0.5$ is the maximum likelihood estimate of the geometric parameter β as well as the method of moments estimate of the Poisson parameter λ . Then, $P = (1 + 0.5)^{-1} = 0.6667$ and $Q = e^{-0.5} = 0.6065$. The absolute difference is 0.0602.