

23. For a sample of 15 losses, you are given:

(i)

Interval	Observed Number of Losses
(0, 2]	5
(2, 5]	5
(5, ∞)	5

(ii) Losses follow the uniform distribution on $(0, \theta)$.

Estimate θ by minimizing the function $\sum_{j=1}^3 \frac{(E_j - O_j)^2}{O_j}$, where E_j is the expected number of losses in the j th interval and O_j is the observed number of losses in the j th interval.

(A) 6.0

(B) 6.4

(C) 6.8

(D) 7.2

(E) 7.6