

54. You are given:

- (i) Losses follow an exponential distribution with mean θ .
- (ii) A random sample of losses is distributed as follows:

| Loss Range | Number of Losses |
|---------------|------------------|
| (0 – 100] | 32 |
| (100 – 200] | 21 |
| (200 – 400] | 27 |
| (400 – 750] | 16 |
| (750 – 1000] | 2 |
| (1000 – 1500] | 2 |
| Total | 100 |

Estimate θ by matching at the 80th percentile.

- (A) 249
- (B) 253
- (C) 257
- (D) 260
- (E) 263