

1997 Multiple Choice #13 Homework Problem

Monday 04/20

13. Joe and Matthew plan to visit a bookstore. Based on their previous visits to this bookstore, the probability distributions of the number of books they will buy are given below.

Number of books Joe will buy	0	1	2
Probability	0.50	0.25	0.25
Number of books Matthew will buy	0	1	2
Probability	0.25	0.50	0.25

Assuming that Joe and Matthew make their decisions independently, what is the probability that they will purchase no books on this visit to the bookstore?

- (A) 0.0625
- (B) 0.1250
- (C) 0.1875
- (D) 0.2500
- (E) 0.7500