

73. For a select-and-ultimate table with a 2-year select period:

x	$P_{[x]}$	$P_{[x]+1}$	P_{x+2}	$x+2$
48	0.9865	0.9841	0.9713	50
49	0.9858	0.9831	0.9698	51
50	0.9849	0.9819	0.9682	52
51	0.9838	0.9803	0.9664	53

Keith and Clive are independent lives, both age 50. Keith was selected at age 45 and Clive was selected at age 50.

Calculate the probability that exactly one will be alive at the end of three years.

- (A) Less than 0.115
- (B) At least 0.115, but less than 0.125
- (C) At least 0.125, but less than 0.135
- (D) At least 0.135, but less than 0.145
- (E) At least 0.145