

274-277. Use the following information for questions 274-277.

For a special fully discrete whole life insurance on (x) , you are given:

(i) Deaths are uniformly distributed over each year of age.

(ii)

k	Benefit premium at beginning of year k	Death benefit at end of year k	Interest rate used during year k	q_{x+k-1}	Benefit reserve at end of year k
2	---	---	---	---	84
3	18	240	0.07	---	96
4	24	360	0.06	0.101	---

274. Calculate q_{x+2} .

(A) 0.046

(B) 0.051

(C) 0.055

(D) 0.084

(E) 0.091

276. Calculate ${}_{0.5}q_{x+3.5}$.

(A) 0.046

(B) 0.048

(C) 0.051

(D) 0.053

(E) 0.056