

**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