

**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

**275.** Calculate the benefit reserve at the end of year 4.

- (A) 101
- (B) 102
- (C) 103
- (D) 104
- (E) 105