

199. For a fully discrete whole life insurance of 1000 on (45) , you are given:

(i) ${}_kV$ denotes the benefit reserve at the of year k , $k = 1, 2, 3, \dots$

(ii)

k	$1000{}_kV$	q_{45+k}
22	235	0.015
23	255	0.020
24	272	0.025

Calculate $1000{}_{25}V$.

(A) 279

(B) 282

(C) 284

(D) 286

(E) 288