

7. For an annuity payable semiannually, you are given:

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

(ii) $q_{69} = 0.03$

(iii) $i = 0.06$

(iv) $1000\bar{A}_{70} = 530$

Calculate $\ddot{a}_{69}^{(2)}$.

(A) 8.35

(B) 8.47

(C) 8.59

(D) 8.72

(E) 8.85