

31. You are given:

(i) $l_x = 10(105 - x), 0 \leq x \leq 105.$

(ii) (45) and (65) have independent future lifetimes.

Calculate $\overset{\circ}{e}_{45:65}.$

(A) 33

(B) 34

(C) 35

(D) 36

(E) 37