**Name:** _____    **Student ID:** _____

The following is an extract from a mortality table:

| $x$ | $\ell_x$ | $d_x$ | $p_x$ | $q_x$ |
|-----|------|------|-------|-------|
| 95 | – | – | – | 0.40 |
| 96 | – | – | 0.20 | – |
| 97 | – | 72 | – | 1.00 |

You are also given:

- $\ell_{90} = 1000$ and $\ell_{93} = 825$

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

Calculate $_{3|2.5}q_{90}$.