

4. For a group of individuals all age  $x$ , you are given:

(i) 25% are smokers (s); 75% are nonsmokers (ns).

(ii)

$k$	$q_{x+k}^s$	$q_{x+k}^{ns}$
0	0.10	0.05
1	0.20	0.10
2	0.30	0.15

$$i = 0.02$$

Calculate  $10,000A_{x:\overline{2}|}^1$  for an individual chosen at random from this group.

(A) 1690

(B) 1710

(C) 1730

(D) 1750

(E) 1770