

## Actuarial Excel Addin

### LX function

The **LX function** returns a vector of  $L_x$  from age or  $x = 0$  to 120 (years), where  $L_x = L_{x-1} \times p_{x-1}$ . LX is never used alone, it is always a parameter of one of the following functions: JS, LifeIns, TPX, TQX, getLx, CERTAIN.

LX - parameters	Lx1	Lx2	Default	Comment
<b>Sex *</b>	2	1		Sex --> 1: Male, 2: Female, 1.25: Unisex (75% male and 25% female), ...
QxTable		CPM2014	UP94ICA	Mortality table
Age Move	0	0	0	Age shift for the mortality table (+ means older, - means younger)
Load	0	0	0	Loading ( $q_{x\text{-loaded}} = q_x \times (1 + \text{load})$ )
Projection	FALSE	TRUE	FALSE	With or without mortality projection
Projection Scale	ECH_CPM_B	ECH_CPM_B		.....
Projection base year	2014	2014		Base year of the mortality table
Year of valuation	2021	2021		.....
Age at valuation	#REF!	#REF!		.....

Required parameter \*