

Homework Assignment –Population Dynamics

Value: 10 points

Due: Friday Oct. 5

1. Fill in the missing cells in this life table:

Age class (x)	Number of Individuals (n_x)	Deaths (d_x)	Mortality Rate (q_x)	Survival Rate (s_x)	Cumulative Survival Rate (l_x)
0	100	100-70 = 30	30/100 = 0.3	1-0.3 = 0.7	100/100 = 1.0
1	70	25	0.36	0.64	0.70
2	45	20	0.44	0.56	0.45
3	25	19	0.76	0.24	0.25
4	6	6	1.00	0	0.06

2. Which type of survivorship curve does the life table in question 1 describe?
- Type 1 -- mortality rate increases with age**
 - Type 2
 - Type 3