

Place your name on the back of this sheet of paper and nowhere else. Staple your answers on the front of this sheet of paper. Failure to follow these directions will cost you 1 point. Your assignment will be typed, except graphs can be drawn by hand and mathematical equations can be done by hand. Failure to type it will cost you 10 points. If you use double-sided printing or print on the back of scrap paper, I will give you one additional point.

1) (30 points) Fill in the rest of the table. Show all calculations. If a calculation is not immediately obvious, then briefly explain what you did.

Age	Proportion dying in interval	# living at the beginning	# dying during interval	<u>Person years lived</u>		Years of life remaining
				in age interval	in this and subsequent	
5 - 10	.00237	98,473	233	491,782	6,445,067	65.45
10-15	.00270					

2) (10 points) Explain how it is possible for people who are 10 years old to expect to live more years than a person just born. Shouldn't they expect to live 10 years less?

3) (20 points) What is meant by HALE? What are the advantage and disadvantage of HALE over what you did in Question #1?

4) (15 points) Why do you think that males typically have a shorter life expectancy than females? Explain two reasons.

5) (15 points) Why do you think that the graphs of Denmark and Sierra Leone on Page 300 are so different? Tell me both why the former has a bulge near the top and the latter has that huge bottom.

6) (10 points) What is the reason the last column (in the table in Question #1) is the previous column divided by the third column?