MAP 4175 / 5177	Name:			
Quiz 3		Date: September 18, 2018		

Each problem is worth 10 points. Show all work for full credit, and use correct notation.

1. Males have a constant force of mortality of 0.05 and females have a constant force of mortality of 0.04. For a population of 40-year olds, 40% are male. Determine q_{50} for this population of 40-year olds.

2. Each individual has a constant force of mortality, μ , where μ is drawn from the uniform distribution on the interval [0.01,0.05]. Determine the value of $_{10}p_x$

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3. $_{10}q_{30}$

4. $_{5|10}q_{30}$

5. Suppose the force of mortality is constant over the 2-year period centered at age 40. Determine the value of the force of mortality that is consistent with the mortality from the L-TAM Illustrative Life Table.