

STAT 472
Spring 2021
Quiz 2
February 4, 2021

1. You are given:

a. $e_{40:\overline{10}|} = 9.2$

b. $e_{50:\overline{10}|} = 8.6$

c. $e_{60} = 24$

d. ${}_{10}p_{40} = 0.96$

e. ${}_{10}p_{50} = 0.92$

Calculate e_{40} .

2. You are given that ${}_t p_{90} = 1 - 0.04t^2$ for $0 \leq t \leq 5$.

Calculate the μ_{91}

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1. You are given that $\mu_{80+t} = 0.04t$.

Calculate ${}_{10}P_{80}$.

2. You are given that ${}_t p_{90} = 1 - 0.04t^2$ for $0 \leq t \leq 5$.

Calculate the $\text{Var}[T_{90}] - \text{Var}[K_{90}]$.