

STAT 472
Quiz 2
Fall 2019
September 5, 2018

1. You are given:

a. $e_{45} = 40$

b. $e_{55} = 32$

c. $e_{45:\overline{10}|} = 9$

d. ${}_{9|}q_{45} = 0.005$

Calculate q_{54} .

2. You are given that ${}_tq_{90} = \frac{t^3}{1000}$.

Calculate the $Var[T_{90}]$.

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1. You are given that ${}_tq_{95} = \frac{t^3}{125}$.

Calculate the $Var[K_{90}]$.

2. You are given:

a. ${}_5q_{60} = 0.10$

b. ${}_5q_{65} = 0.2$

c. ${}_5q_{70} = 0.3$

d. ${}_5q_{75} = 0.4$

Calculate ${}_{5|5}q_{60}$.