1. Losses represented by the random variable of $X$ are uniformly distributed from 0 to the maximum loss. You are given that $Var[X] = 62,208$.

Calculate $TVaR_{0.75}(X)$. 
2. The Dingyi Dental Insurance Company sells dental insurance in the United States. The total claims for each insured follow a Pareto distribution with $\alpha = 2$. The policy that Dingyi sells has an upper limit of 1000. The expected total payment by Dingyi, $E(X \wedge 1000)$, is 463.52.

Dingyi now intends to sell a similar policy in Hong Kong. Dingyi expects claims to be distributed the same except for the adjustment for currency. Note that there are 7.75 Hong Kong dollars for each US dollar.

Dingyi wants to establish an upper limit in Hong Kong so that his expected payment will be 2500.

Determine the upper limit that Dingyi should establish.