1054-60-122Percy Brill* (brill@uwindsor.ca), Department of Management Science, University of Windsor,
401 Sunset Avenue, Windsor, Ontario N9B3P4, Canada. Alternative Solution of a Renewal
Problem.

We derive explicit analytical and asymptotic formulas for the expected number of renewals required to exceed a barrier. The method of analysis can be applied to determine the expected number of demands during an ordering cycle of an inventory system, and related quantities in queues and other stochastic models. (Received September 10, 2009)