

Wolff 2-9

From Ronald W. Wolff: “stochastic modeling and the theory of queues processes”, Prentice-Hall 1989

You are planning an automobile trip during which you estimate that about half the trip (in miles) will be spent on the highways and half will be spent in cities. From past experience, you estimate that you will get 40 miles per gallon on highways and 20 miles per gallon in cities.

- (a) What overall mileage (miles/gallon) do you expect to get on this trip?
- (b) What does this question have to do with renewal theory?