

Quiz 6

1. Your grandmother is riding on her Harley-Davidson to Riyadh. There are 6 traffic lights on her way. You are very concerned, since at each single traffic light the probability that she drive through a red light is $1/3$.
 - a. What is the expected number of crossings against the red light?
 - b. What is the standard deviation?
 - c. What is the probability that she drives through exactly 2 red lights?

2. The scores on a class test are normally distributed with mean 613 and standard deviation 100.

What percentage of those who took the test had a score between 400 and 813?