

Math 477 “QUIZ” for Lecture 5

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. A loaded coin, whose probability of Heads is 0.6 is tossed 20 times. Assuming that the tosses are independent, what is the probability that

(i) it landed Heads all the time ?

(ii) it landed Heads 15 times and Tails 5 times?

Problem 2. Two soccer teams, A, and B compete. The probability that team A scores a goal is $\frac{3}{4}$. The team who scores any given goal is independent of who scored any other goal.

Calculate the probability that team B scored 3 goals before team A's 2^{nd} goal.