

MA 587/687

Name (Print last name first):

Quiz 3

Question 1

Three nickels and five dimes are tossed. Given there are 4 total heads, what is the conditional probability that exactly 2 of them were nickels?

Question 2

A fair tetrahedron (4-sided with numbers 1,2,3,4) die is tossed and the result N is recorded. A fair coin is tossed N times. If Z is the total number of heads, what are the mean and variance of the random sum Z ? What is the probability mass function of Z ?