MA 110-11
§3.1 – 3.4

**Quiz #4**

*score*

Name: —————————————

**12 June 2002**

1. Three coins are tossed. Write out the complete sample space. Then find the probability that exactly 2 of the three coins land heads. *(5 points)*

2. Let $E$ and $F$ be two events with $p(E) = 0.2$, $p(F) = 0.4$, and $p(E \cap F) = 0.1$. Find $p(E \cup F)$. *(5 points)*

3. From a bag of 8 red marbles and 6 clear marbles, three marbles are randomly selected. Find the probability that exactly two of the selected marbles are red. *(5 points)*

4. Four dice are rolled. Find the probability that at least two of the dice match (i.e., show the same number). NOTE: This problem is similar to the birthday problem, only with much simpler numbers. *(5 points)*