Math 164
Fall, 2009 Name:
Quiz 12 - §12.1

For each of the following problems circle T if the given statement is always true and F if the statement is sometimes false. There is no partial credit on this part of the quiz.

1. T F Roll two dice. The probability of rolling a sum of 8 is $\frac{6}{36}$.
2. T F Flip two coins. The probability of getting the same outcome on both coins is $\frac{1}{4}$.

Complete the following problems. Show all work and explain your reasoning.

3. Three fair coins are tossed.

   (a) Write out the sample space.

   (b) Find the probability of getting no heads.

   (c) Find the probability of getting exactly one head.

   (d) Find the probability of getting at least one head.