

## Probability Worksheet #1

1. A number is drawn at random from the numbers 1 through 24.
  - a. What is the probability that the number is a multiple of 5?
  - b. What is the probability that the number is a multiple of 7?
2. Fifteen names are written, one per card. Two of the names begin with a C, four begin with a T, five begin with a B, and four begin with a P. If a name is drawn at random, what is the probability that it begins with a T?
3. A box contains five red balls, and three green balls.
  - a. If one ball is drawn, what is the probability that it is red?
  - b. If one ball is drawn, what is the probability that it is not red?
4. A pair of dice is rolled. Find the probability of rolling a 7.
5. A card is drawn at random from a deck of 52 cards. Find the probability that it is:
  - a. A three
  - b. A 10 or jack.
  - c. Not a diamond
6. A bag contains four black marbles and five white marbles that are all exactly alike except in color. If one marble is drawn, find the probability that it will be.
  - a. white.
  - b. red
  - c. black or white.
7. Five red books and three green books are placed at random on a shelf. Without looking a person takes a book. Find the probability that it is a red book.
8. Find the probability of at least one head appearing on two tosses of a coin.