

Problem 1. A coin is flipped 7 times, and the results are recorded in order.

(a) Find the size of the sample space.

(b) Find the number of outcomes containing four consecutive heads and three tails.

(c) Find the probability of four consecutive heads and three tails.

Problem 2. Seventeen balls are in a bin. There are two green balls, three red balls, five blue balls, and seven yellow balls. Four balls are selected at random.

- (a) Find the size of the sample space.
- (b) Find the probability of selecting four yellow balls.
- (c) Find the probability of selecting one ball of each color.