

Name: _____

Mutually Exclusive Events

- 1) A student is chosen at random to represent a class with five freshman, eight sophomores, three juniors, and two seniors
Find the probability that the student is:
 - 1) A sophomore
 - 2) A junior
 - 3) A junior or a senior
- 2) One card is selected at random from 50 cards numbered 1 to 50. Find the probability that the number is:
 - 1) Greater than 10
 - 2) Divisible by 5
 - 3) Greater than 10 and divisible by 5
 - 4) Greater than 10 or divisible by 5
- 3) Three students A, B, and C are in a swimming race. A and B have the same probability of winning, and each is twice as likely to win as C. Find the probability that:
 - 1) B wins
 - 2) C wins
 - 3) B or C wins
- 4) Determine whether each event is *mutually exclusive* or *inclusive*. Then find each probability.
 - 1) There are 18 cars in a lot. There are 6 red cars, 8 blue cars, 3 white cars, and 1 purple car. What is the probability of randomly choosing a white or blue car?
 - 2) In rolling a die, what is the probability that it is either an even or a four?