

Math 21 Practice Midterm Part 2

Chapter 5

- 1) A statistics class has 15 students. In how many ways can the instructor pick one student to give an A, a second to give a C, and a third to give a D?
- 2) 50% of the customers at Masaru's order a rice bowl, 30% order a California roll, and 4% order both a rice bowl and a California roll. Find the probability that a customer orders a rice bowl or a California roll.
- 3) Ross has 7 Neil Young CD's and 5 Pink Floyd CD's. If Ross randomly picks 4 CD's to take on a trip, find the probability that all 4 are Neil Young CDs.

Chapter 6

- 4) The probability that a college student votes in the upcoming election is 0.6. If 8 college students are selected at random, find the probability that at least 3 vote in the upcoming election.
- 5) On an average day, a credit union gives out 4 auto loans. Find the probability that they give out 2 or fewer loans today.

Chapter 7

- 6) The weights of thoroughbred race horses are normally distributed with a mean of 1124 pounds and a standard deviation of 80 pounds. Find the probability that a thoroughbred race horse weighs more than 1200 pounds.
- 7) COS college placement scores are whole numbers that are normally distributed with a mean of 100 points and standard deviation of 8 points. The college wants to invite students with college placement scores in the bottom 5 percent to a summer "College Skills Boot Camp". What is the highest score that qualifies for an invitation?