Math 21 – Chapter 5 Project

1) The faculty senate has 24 members.

a) In how many different ways can the senate elect a president, a vice president, and a secretary?

b) In how many different ways can the senate select a 4-person committee to attend a statewide conference?

c) In how many different ways can the senate elect a person to oversee grievances and a 3-personsupport committee?

2) The probability of getting an A on this exam is 0.08, and the probability of getting a B is 0.14.

a) Find the probability that a student gets an A or a B.

b) Find the probability that a student gets a C or lower.

3) The probability that a COS student is female is 0.55, the probability that a COS student plans to transfer is 0.33, and the probability that a COS student is female and a transfer student is 0.11.

a) Find the probability that a COS student is female or a transfer student.

b) If a female student is selected at random, find the probability that she is a transfer student.

4)

a) A card is drawn from a well-shuffled deck. Find the probability that it is a face card.

b) Three cards are drawn at random from a well-shuffled deck. Find the probability that all 3 are face cards.

5) Nine males and four females are to be interviewed for a job as a community college instructor.

The top three candidates are sent forward to the president for a second interview. If all the candidates are equally qualified, …

a) find the probability that three males get a second interview.

b) find the probability that at least one male gets a second interview.