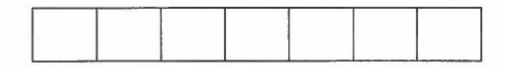
FRS HW1

Kouba

Fundamental Principle of Counting

c.) the men must sit together?

- 1.) Jill, Jenny, Jasmine, Jane, Joe, Jake, and Jack are to be seated in a row of 7 chairs. How many ways can this be done ifa.) the women and men can sit in any chair?b.) the women must sit together?
 - d.) the women must sit together and the men must sit together?
 - e.) no woman can sit next to a woman and no man can sit next to a man?
 - f.) Jack and Jill must sit next to each other?



- 2.) Two identical red tennis balls and three identical green tennis balls are to be arranged in a row of 5 balls. How many ways can this be done if
 - a.) the colors can be arranged in any order?
 - b.) the red balls must be next to each other?
 - c.) the green balls must be next to each other?
 - d.) the green balls cannot be adjacent to each other?
 - e.) the red balls cannot be adjacent to each other?