

Last name _____

First name _____

LARSON—MATH 350—CLASSROOM WORKSHEET 01
Counting (Multiplication Principle).

1. There are 2 drink choices, 3 entree choices, and 4 desert choices at a restaurant. How many ways are there to choose 1 drink, 1 entree and 1 desert?
2. There are 6 guests at a birthday party. Each shakes the hand of every other (exactly once). How many handshakes occur?
3. Alice sits at a fixed spot of a round table. There are 5 other chairs around the table. How many ways are there to seat the 5 other guests?

4. How many ways are there to seat the 6 guests if Alice's spot isn't fixed?
5. A lottery ticket consists of a choice of 5 different numbers from 90 possible numbers. How many different choices are possible?
6. In a hand of bridge each player is dealt 13 cards from a 52 card deck (where all 52 cards are different). How many different hands are possible?
7. 3 chessboards are set up at the party. How many ways are there to match up the 6 guests to play 3 simultaneous chess games?