1. (4 points) How many odd three digit integers have no repeated digits? Be sure to show your work and, maximize partial credit, discuss your work.

1st digit has to be odd 1,3,5,7,9 = 5 ways

$$2^{nl}$$
 digit 0-9 = 10 ways - 1st \$ 2^{nl} digit = 8 ways

 3^{nl} digit 1-9 = 8 ways

2. (4 points) A competition has contests in five different running events, six water events, four cycling events and seven different eating competitions. Each contestant chooses one activity from each event, how many different selections can be made? Be sure to show your work and, to maximize partial credit, discuss your work.

3. (4 points) After choosing the events from the previous problem, each contestant must now choose in what order he will complete the events, how many orderings are possible? Be sure to show your work and, to maximize partial credit, discuss your work.